

Section 17

Business Enterprise

Statistics in this section relate in general to the place and behavior of the business firm and of business initiative in the American economy. The data include measures of and changes in the number of businesses; assets and liabilities of corporations; types of business income and expenditures; business sales and inventories; and consumer cooperatives.

The principal sources of these data are the *Survey of Current Business* and its *National Income Supplement* (1954) and *U.S. Income and Output* (1958), published by the Office of Business Economics, Department of Commerce; the *Federal Reserve Bulletin* issued by the Board of Governors of the Federal Reserve System; the annual *Statistics of Income* reports prepared by the Internal Revenue Service; and monthly statements published by Dun & Bradstreet, Inc. Other sources are publications of the Securities and Exchange Commission, the Federal Trade Commission and, for data on bankruptcies, the Administrative Office of the United States Courts.

Business firms.—A business firm is generally defined as a business organization under a single management and may include one or more plants or outlets; a firm doing business in more than one industry is classified by industry according to the major activity of the firm as a whole. The Internal Revenue Service concept of business firm relates primarily to the legal entity used for tax reporting purposes. In the *Statistics of Income* reports, business firm data are given separately for sole proprietorships, partnerships, and corporations. While a few corporations file consolidated tax returns (i.e., one return for the parent firm and all its subsidiaries), most corporate tax returns represent individual corporations, some of which are affiliated through common ownership or control with other corporations filing their own separate tax returns.

Industrial and commercial failures.—These data are collected by Dun & Bradstreet, and are available by years since 1857 and by months since 1900. The number of failures includes concerns involved in court proceedings or voluntary actions likely to end in loss to creditors; discontinuances with outside obligations paid in full are not included. Data cover manufacturers, wholesalers, retailers, building contractors, and certain types of commercial service, but do not encompass all business enterprises. Specific types of business not listed are: Finance, insurance, and real estate companies; railroads and steamship lines; amusement enterprises. Failures data are published monthly in summary form in *Dun's Review & Modern Industry*.

Corporate assets and liabilities.—Data on corporate assets and liabilities are from the Internal Revenue Service and the Securities and Exchange Commission. In its annual report, *Statistics of Income, Corporation Income Tax Returns*, the Internal Revenue Service presents balance sheet and income account data for all United States corporations. In a quarterly release entitled *Net Working Capital of U.S. Corporations*, the Securities and Exchange Commission publishes data on the net working capital position of all United States corporations, exclusive of banks, savings and loan associations, and insurance companies, showing the principal components of current assets and liabilities.

Corporate income, profits, dividends, and taxes.—Several agencies (the Internal Revenue Service, the Office of Business Economics, and the Federal Reserve Board) compile corporate income account data. These data, however, are not comparable because of differing methods of compilation.

The Internal Revenue Service publishes financial data for all business enterprises, both corporate and noncorporate, based on income tax returns filed by sole proprietorships, partnerships, and corporations. These data appear in *Statistics of Income—U.S. Business Tax Returns* and *Corporation Income Tax Returns*.

The corporate data issued by the Office of Business Economics are a part of its national income and product accounts and are defined as required for purposes of national income estimation. The primary sources of data for the Office of Business Economics estimates of profits, taxes, dividends, and undistributed profits are the original corporate tax returns submitted to the Internal Revenue Service. Various adjustments of the *Statistics of Income* data are required by the national income treatment, particularly with respect to depletion, capital gain or loss, and intercorporate dividends, and because the original corporate income statements do not represent the final stage of information.

Federal Reserve Board data relating to profits and dividends apply to particular industrial segments only, such as large manufacturing and public utility corporations.

Sources and uses of corporate funds.—These data indicate capital requirements of corporations and the manner in which they are financed. Sources of funds are equal to their uses. Certain discrepancies, however, apart from errors in estimation, interfere with this equality. These discrepancies are not particularly significant and are due to omission of such factors as (1) money accruing to corporations from an excess of sales over purchases of used plant and equipment, and (2) transactions in securities held as permanent investments except public offerings.

Business sales and inventories.—Business sales and inventories as defined by the Office of Business Economics are the sum of data for manufacturing, wholesale, and retail trade. Sales are estimated aggregate values and inventories are book values at the end of the period. Sales signifies sales or shipments for retail and wholesale trade and billings or shipments for manufacturing. Trade inventories are valued at cost of merchandise on hand, while manufacturers' inventories are valued at approximate current costs or at book values, as reported by the manufacturer. The data on inventories for manufacturing (see table 694) are based on annual data from the *Census of Manufactures* and the *Annual Survey of Manufactures*.

Net change in business inventories.—To ascertain net physical change in nonfarm inventories, book values of beginning and ending inventories of each year are expressed in terms of constant base year prices by means of selected Bureau of Labor Statistics wholesale price indexes appropriate to each industry. Net increment in deflated book value figures is then converted to a current price basis by index ratios of current prices to base year prices. No inventory valuation adjustment is shown for farm inventories because change in farm inventories is estimated by the Department of Agriculture from physical quantity data.

Plant and equipment expenditures.—A joint survey by the Securities and Exchange Commission and the Department of Commerce presents quarterly data on actual plant and equipment expenditures, and on anticipated expenditures for the next two quarters. In addition, at the beginning of each year, a survey is made of plans of business as regards capital expenditures during that year. The data are based on reports submitted by corporations registered with the Securities and Exchange Commission, by transportation companies under Interstate Commerce Commission jurisdiction, and by a large sample of nonregistered companies, unincorporated as well as corporate, reporting to the Department of Commerce.

Alaska and Hawaii.—Statements specifying inclusion or exclusion of figures for Alaska and Hawaii appear in the headnotes to each table unless the inclusion or exclusion is self-evident.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1957*. See preface.

No. 669. SOLE PROPRIETORSHIPS AND PARTNERSHIPS—NUMBER, RECEIPTS, DEDUCTIONS, AND NET PROFIT: 1939 TO 1962

[Number in thousands; money figures in millions of dollars. Includes Alaska and Hawaii. See headnote, table 671]

ITEM	1939	1945	1953	1958	1959	1960	1961	1962
SOLE PROPRIETORSHIPS ¹								
Number.....	1,052	5,689	7,715	8,800	9,142	9,090	9,242	9,183
Business receipts ²	23,505	79,028	143,792	163,399	170,205	171,257	170,981	178,420
Deductions:								
Cost of goods sold.....	14,394	44,824	(NA)	(NA)	96,784	(NA)	(NA)	105,786
Depreciation.....	(NA)	³ 1,582	(NA)	6,094	6,914	7,097	8,912	7,201
Other.....	6,633	20,551	(NA)	(NA)	50,960	(NA)	(NA)	41,539
Net profit (less loss).....	2,478	12,069	17,007	20,778	21,517	21,067	22,697	23,895
PARTNERSHIPS								
Number.....	271	627	959	954	949	941	939	932
Total receipts.....	14,763	47,301	79,985	(NA)	78,406	74,308	74,707	73,673
Business receipts ⁴	14,377	46,334	77,822	77,604	77,047	72,895	73,413	72,304
Other receipts ⁵	386	968	2,163	(NA)	1,359	1,413	1,294	1,369
Deductions:								
Cost of goods sold.....	10,546	32,317	55,530	48,890	47,162	43,442	44,589	43,699
Depreciation.....	167	484	1,526	2,017	2,103	2,084	2,178	2,213
Other.....	2,496	7,733	14,535	(NA)	20,296	20,422	19,271	19,247
Net profit (less loss).....	1,564	6,768	8,394	8,649	8,845	8,360	8,689	8,513

NA Not available. ¹ Individually owned businesses and farms.

² Receipts from sales and services less allowances, rebates, and returns; excludes capital gains or losses, and investment income not associated with the business. ³ Depreciation, obsolescence, and depletion.

⁴ Gross receipts less returns and allowances. For partnerships engaged in finance, insurance, and real estate, excludes a sizable part of income because reporting instructions prescribe separate entries for investment income.

⁵ Interest, rents, nonqualifying dividends, and other income.

Source: Treasury Dept., Internal Revenue Service; *Statistics of Income, U.S. Business Tax Returns*.

No. 670. SOLE PROPRIETORSHIPS, PARTNERSHIPS, AND CORPORATIONS—NUMBER, RECEIPTS, AND NET PROFIT, BY INDUSTRY AND SIZE OF RECEIPTS: 1962

[Number in thousands; money figures in millions of dollars. Includes Alaska and Hawaii. See headnote, table 671]

ITEM	SIZE OF BUSINESS RECEIPTS								
	Sole proprietorships ¹			Active partnerships			Active corporations		
	Under \$50,000 ²	\$50,000 to \$100,000	\$100,000 or more	Under \$50,000 ²	\$50,000 to \$100,000	\$100,000 or more	Under \$50,000 ²	\$50,000 to \$100,000	\$100,000 or more
All industrial divisions: ³									
Number.....	8,401	472	310	644	130	167	539	172	557
Business receipts ⁴	75,629	32,600	70,192	9,114	9,227	53,962	6,874	11,101	877,146
Net profit (less loss) ⁵	16,155	4,230	3,510	1,708	1,073	5,132	⁶ 255	425	49,436
Agric., forestry, fisheries:									
Number.....	3,378	47	20	110	13	10	10	4	9
Business receipts ⁴	22,596	3,181	4,423	1,513	894	2,576	169	274	5,535
Net profit (less loss) ⁵	3,260	323	113	302	155	198	⁶ 20	14	167
Mining:									
Number.....	31	2	2	12	1	2	7	2	6
Business receipts ⁴	272	150	565	103	94	715	72	115	11,768
Net profit (less loss) ⁵	⁶ 54	⁶ 10	(Z)	⁶ 52	7	42	⁶ 177	⁶ 10	980
Construction:									
Number.....	614	40	32	37	9	12	26	13	52
Business receipts ⁴	5,626	2,816	7,097	748	645	5,412	465	973	38,873
Net profit (less loss) ⁵	1,430	299	379	187	95	312	⁶ 26	⁶ 6	649
Manufacturing:									
Number.....	150	15	15	23	7	13	37	21	125
Business receipts ⁴	1,756	1,090	3,863	424	515	5,715	657	1,520	397,483
Net profit (less loss) ⁵	312	129	213	82	80	432	⁶ 131	⁶ 22	25,505
Transp., communication, electric, gas, sanitary services:									
Number.....	269	10	5	13	2	2	23	8	22
Business receipts ⁴	2,432	687	1,122	213	118	664	396	611	70,086
Net profit (less loss) ⁵	513	70	60	45	14	66	⁶ 8	19	7,999
Wholesale and retail trade:									
Number.....	1,410	269	209	122	60	86	82	57	250
Business receipts ⁴	21,980	18,828	48,169	2,606	4,343	29,631	1,736	4,171	287,212
Net profit (less loss) ⁵	2,389	1,397	2,051	283	420	1,496	⁶ 86	⁶ 8	5,267
Finance, insurance, real estate:									
Number.....	457	10	6	210	11	8	268	41	50
Business receipts ⁴	3,240	652	1,281	1,578	705	2,693	1,995	1,559	42,741
Net profit (less loss) ⁵	1,371	161	106	321	183	448	289	411	7,981
Services:									
Number.....	2,035	78	20	116	27	23	80	26	45
Business receipts ⁴	17,441	5,127	3,511	1,921	1,908	6,552	1,369	1,867	23,371
Net profit (less loss) ⁵	6,860	1,853	576	540	717	2,137	⁶ 80	27	887

Z. Less than \$500,000. ¹ Individually owned businesses and farms.

² Includes business with receipts not reported. ³ Includes business not allocable to individual industries.

⁴ See footnote 2, table 671.

⁵ See footnote 4, table 671.

⁶ Net loss exceeds net profit.

Source: Treasury Dept., Internal Revenue Service; *Statistics of Income, 1962, U.S. Business Tax Returns*.

No. 671. SOLE PROPRIETORSHIPS, PARTNERSHIPS, AND CORPORATIONS—NUMBER AND RECEIPTS, 1947 to 1962, DEPRECIATION AND NET PROFIT, 1962, BY INDUSTRY

[Number in thousands; money figures in millions of dollars. Includes Alaska and Hawaii. Based on sample of unaudited tax returns filed for accounting periods ending between July 1 of year shown and June 30 of following year]

INDUSTRY	Sole proprietorships ¹	Active partnerships	Active corporations
1947: Number.....	6,624	889	552
Business receipts ²	101,124	59,206	353,794
1957: Number.....	8,738	971	940
Business receipts ²	162,687	83,430	684,883
1959: Number.....	9,142	949	1,074
Business receipts ²	176,205	77,047	772,915
1960: Number.....	9,090	941	1,141
Business receipts ²	171,257	72,895	802,791
1961: Number.....	9,242	939	1,190
Business receipts ²	170,981	73,413	823,943
NUMBER, 1962			
All industries ³	9,183	932	1,268
Agriculture, forestry, and fisheries.....	3,444	134	22
Mining.....	35	15	14
Construction.....	687	58	91
Manufacturing.....	181	43	183
Transp., communication, electric, gas, and sanitary services.....	284	17	53
Wholesale and retail trade ⁴	1,889	267	389
Wholesale.....	319	41	132
Retail.....	1,515	221	245
Finance, insurance, and real estate.....	473	229	359
Services.....	2,133	167	150
BUSINESS RECEIPTS,⁵ 1962			
All industries ³	178,420	72,304	895,120
Agriculture, forestry, and fisheries.....	30,200	4,983	5,978
Mining.....	987	912	11,955
Construction.....	15,539	6,805	40,311
Manufacturing.....	6,710	6,654	399,660
Transp., communication, electric, gas, and sanitary services.....	4,241	995	71,092
Wholesale and retail trade ⁴	88,977	36,580	293,119
Wholesale.....	16,963	12,367	142,730
Retail.....	68,440	23,227	148,687
Finance, insurance, and real estate.....	5,172	4,976	46,295
Services.....	26,079	10,380	26,608
DEPRECIATION, 1962			
All industries ³	7,201	2,213	27,553
Agriculture, forestry, and fisheries.....	3,277	334	227
Mining.....	103	84	847
Construction.....	416	154	734
Manufacturing.....	217	141	12,419
Transp., communication, electric, gas, and sanitary services.....	412	66	6,735
Wholesale and retail trade ⁴	1,268	371	2,448
Wholesale.....	234	90	795
Retail.....	966	269	1,676
Finance, insurance, and real estate.....	247	689	2,370
Services.....	1,248	373	1,771
NET PROFIT (less loss),⁶ 1962			
All industries ³	23,895	8,513	49,606
Agriculture, forestry, and fisheries.....	3,696	655	161
Mining.....	64	4	794
Construction.....	2,108	594	617
Manufacturing.....	654	595	25,351
Transp., communication, electric, gas, and sanitary services.....	642	124	8,011
Wholesale and retail trade ⁴	5,837	2,199	5,172
Wholesale.....	1,463	573	2,421
Retail.....	4,187	1,564	2,640
Finance, insurance, and real estate.....	1,638	952	8,681
Services.....	9,289	3,394	833

¹ Individually owned businesses and farms.

² Receipts from sales and services less returns and allowances:

(a) For sole proprietorships, excludes capital gains or losses and investment income not associated with the taxpayer's business.

(b) For partnerships and corporations engaged in finance, insurance, and real estate, excludes a sizable part of income because reporting instructions prescribe separate entries for investment income.

³ Includes business not allocable to individual industries.

⁴ Net profit or net income less loss or deficit.

(a) Sole proprietorships: Business receipts less total deductions, including cost of goods sold.

(b) Partnerships: Total receipts less total deductions, including cost of goods sold. Net profit includes investment and other income.

(c) Corporation returns: Gross income subject to tax, less ordinary and necessary business deductions.

⁵ Net loss exceeds net profit.

Source: Treasury Dept., Internal Revenue Service; *Statistics of Income, 1962, U.S. Business Tax Returns.*

NO. 672. SOLE PROPRIETORSHIPS AND PARTNERSHIPS—NUMBER, BUSINESS RECEIPTS, AND NET PROFIT, STATES AND OTHER AREAS: 1962

[Number in thousands; money figures in millions of dollars. Figures in this table differ slightly from figures for "All industries" shown in other tables in this section based on Internal Revenue Service data because of minor variations between estimating techniques for deriving subnational and national statistics. See headline, table 671.]

STATE OR OTHER AREA	SOLE PROPRIETORSHIPS ¹			PARTNERSHIPS		
	Number of businesses	Business receipts ²	Net profit (less loss) ³	Number of partnerships	Business receipts ²	Net profit (less loss) ³
Total.....	9,176	178,440	23,894	932	72,320	8,521
New England.....	389	7,850	1,352	36	2,330	350
Maine.....	52	1,031	103	3	150	18
New Hampshire.....	29	597	89	2	93	11
Vermont.....	25	412	53	2	101	10
Massachusetts.....	164	3,339	633	14	1,116	167
Rhode Island.....	28	555	106	3	162	29
Connecticut.....	91	1,916	368	12	708	115
Middle Atlantic.....	1,262	28,265	4,382	179	14,840	1,974
New York.....	616	13,380	2,252	99	8,734	1,261
New Jersey.....	210	5,524	558	31	2,110	273
Pennsylvania.....	436	9,351	1,272	49	3,996	450
East North Central.....	1,877	34,061	5,105	175	12,540	1,592
Ohio.....	463	8,281	1,232	40	2,179	346
Indiana.....	300	4,454	690	20	1,352	172
Illinois.....	513	10,386	1,615	62	4,985	607
Michigan.....	342	6,621	924	36	2,954	311
Wisconsin.....	269	4,319	644	20	1,070	159
West North Central.....	1,404	23,320	3,178	104	7,002	881
Minnesota.....	256	4,369	615	21	1,252	143
Iowa.....	301	5,406	760	25	1,594	223
Missouri.....	311	4,494	626	25	1,742	219
North Dakota.....	86	1,102	190	4	246	34
South Dakota.....	87	1,344	177	5	352	37
Nebraska.....	159	2,049	406	11	770	98
Kansas.....	204	3,656	604	13	1,046	127
South Atlantic.....	1,156	21,114	2,541	103	7,047	851
Delaware.....	17	268	45	2	143	20
Maryland.....	135	2,010	451	12	885	100
District of Columbia.....	170	2,677	342	3	324	43
Virginia.....	67	1,202	122	14	910	128
West Virginia.....	201	3,759	499	9	299	81
North Carolina.....	99	1,690	180	18	1,285	140
South Carolina.....	171	3,491	333	7	610	64
Georgia.....	236	5,117	569	14	1,273	154
Florida.....	670	10,623	1,134	24	1,318	171
East South Central.....	670	10,623	1,134	54	4,810	466
Kentucky.....	223	2,897	379	17	1,213	158
Tennessee.....	216	3,252	351	18	1,582	134
Alabama.....	131	2,651	218	11	1,211	98
Mississippi.....	100	1,823	156	8	804	76
West South Central.....	1,016	19,978	1,879	90	8,025	747
Arkansas.....	113	2,259	214	9	827	70
Louisiana.....	125	2,400	259	11	1,046	132
Oklahoma.....	181	2,590	279	12	1,155	115
Texas.....	597	12,429	1,127	58	4,997	420
Mountain.....	404	8,489	977	46	2,964	334
Montana.....	55	1,025	124	5	216	26
Idaho.....	60	993	113	5	386	24
Wyoming.....	26	492	47	3	191	22
Colorado.....	106	2,288	203	13	787	103
New Mexico.....	43	697	109	5	352	33
Arizona.....	53	1,453	145	7	437	50
Utah.....	47	805	102	5	398	56
Nevada.....	14	436	59	3	197	20
Pacific.....	996	24,729	3,346	144	12,757	1,325
Washington.....	147	3,272	438	16	1,166	161
Oregon.....	112	1,035	263	14	1,211	139
California.....	703	18,905	2,553	110	10,118	996
Alaska.....	10	195	18	1	91	11
Hawaii.....	24	422	74	3	171	18
Other areas ⁴	2	13	3	(Z)	4	1

Z Less than 500.

¹ Individually owned businesses and farms. ² Receipts from sales and services less allowances, rebates, and returns; excludes capital gains or losses, and investment income not associated with the taxpayer's business.

³ For sole proprietorships: Business receipts less total deductions, including cost of goods sold. For partnerships: Total receipts less total deductions, including cost of goods sold; includes investment and other income.

⁴ Includes U.S. possessions.

Sources: Treasury Dept., Internal Revenue Service; *Statistics of Income, 1962, U.S. Business Tax Returns.*

No. 673. REPORTING UNITS UNDER SOCIAL SECURITY ACT, EMPLOYMENT, AND TAXABLE PAYROLLS—STATES AND OTHER AREAS: 1962

[Based on reports of employers under the Federal Insurance Contribution Act. A reporting unit is, generally, a single establishment; however, for nonmanufacturing industries, a group of similar establishments of an employer located in the same county are also considered one reporting unit. Data for the following types of employment covered by the Social Security Program in whole or in part are excluded: Farm workers, domestic workers, self-employed persons, members of the uniformed services of the United States, Federal civilian employees, employees of State and local governments. Also excludes railroad employment subject to the Railroad Retirement Act and employment on oceanborne vessels]

STATE OR OTHER AREA	Employees, mid-March (1,000)	Taxable payrolls, January-March (mil. dol.)	Total reporting units	REPORTING UNITS, BY EMPLOYEE-SIZE CLASS					
				1 to 3 ¹	4 to 7	8 to 19	20 to 49	50 to 99	100 or more
Total	43,775	51,700	3,362,835	1,943,749	630,967	464,919	200,213	65,284	57,703
United States	43,512	51,556	3,347,647	1,935,754	628,338	462,598	198,979	64,780	57,198
Alabama.....	576	555	44,827	23,592	0,864	6,943	2,762	857	809
Alaska.....	26	43	3,369	2,041	664	421	166	44	33
Arizona.....	279	329	24,784	14,105	4,819	3,526	1,440	465	339
Arkansas.....	286	237	31,013	18,144	6,135	4,355	1,569	435	375
California.....	4,065	5,519	313,002	178,095	60,261	44,158	19,425	6,175	4,888
Colorado.....	408	485	37,752	21,959	7,188	5,268	2,223	669	447
Connecticut.....	812	1,038	51,183	29,740	9,243	7,008	3,148	1,000	1,044
Delaware.....	121	165	8,538	4,752	1,684	1,219	565	157	161
Dist. of Columbia.....	282	327	18,054	9,296	3,523	2,992	1,392	503	378
Florida.....	1,104	1,098	105,706	60,272	20,800	15,084	6,214	1,976	1,360
Georgia.....	837	790	63,361	33,989	13,225	9,596	4,019	1,333	1,199
Hawaii.....	135	140	10,059	29,740	9,243	7,008	3,148	1,000	1,044
Idaho.....	121	133	13,682	7,944	2,759	1,950	702	186	132
Illinois.....	2,892	3,726	193,403	114,098	33,105	25,361	11,873	4,074	4,082
Indiana.....	1,159	1,447	81,047	47,810	14,807	10,829	4,621	1,480	1,500
Iowa.....	506	531	58,190	36,879	10,300	7,236	2,534	707	534
Kansas.....	397	426	45,727	28,069	8,540	5,861	2,206	596	395
Kentucky.....	500	508	46,378	27,129	8,918	6,429	2,538	749	615
Louisiana.....	585	612	40,532	27,316	9,713	7,417	3,278	1,010	798
Maine.....	210	203	19,414	11,970	3,500	2,461	887	303	293
Maryland.....	718	801	47,956	25,259	9,812	7,641	3,249	1,086	909
Massachusetts.....	1,619	1,870	100,526	54,170	19,705	15,031	6,899	2,395	2,326
Michigan.....	1,883	2,648	128,753	76,835	22,720	17,467	7,228	2,314	2,189
Minnesota.....	733	850	62,687	36,301	12,044	8,758	3,561	1,115	908
Mississippi.....	297	243	28,372	15,774	5,877	4,316	1,517	476	412
Missouri.....	1,005	1,203	85,245	50,583	15,223	11,538	4,791	1,646	1,464
Montana.....	106	113	14,790	9,002	3,018	1,913	607	162	88
Nebraska.....	272	277	31,121	19,304	5,741	3,859	1,488	445	284
Nevada.....	93	127	7,428	4,037	1,590	1,123	446	119	113
New Hampshire.....	167	168	13,454	8,085	2,406	1,704	711	276	262
New Jersey.....	1,717	2,211	122,319	73,296	20,908	15,615	7,457	2,562	2,481
New Mexico.....	156	177	16,542	9,493	3,553	2,462	912	258	159
New York.....	5,243	6,828	377,417	221,268	68,222	49,539	23,463	8,073	6,852
North Carolina.....	1,010	899	72,294	39,320	14,731	10,782	4,392	1,496	1,573
North Dakota.....	78	72	12,407	7,877	2,263	1,519	554	133	61
Ohio.....	2,513	3,247	164,300	94,796	30,234	22,531	10,143	3,250	3,346
Oklahoma.....	437	454	46,462	27,530	8,720	6,424	2,572	717	499
Oregon.....	381	447	37,881	22,511	7,091	4,916	2,169	702	492
Pennsylvania.....	3,030	3,567	194,193	111,329	36,288	25,936	11,895	4,275	4,470
Rhode Island.....	244	252	17,880	10,229	3,294	2,439	1,137	413	398
South Carolina.....	470	412	33,878	18,626	7,096	5,049	1,870	577	690
South Dakota.....	96	97	14,091	8,952	2,703	1,673	561	130	72
Tennessee.....	752	722	56,001	31,086	11,154	8,176	3,410	1,062	1,113
Texas.....	2,077	2,192	185,420	107,561	34,354	25,921	11,227	3,637	2,720
Utah.....	192	219	16,479	9,008	3,462	2,518	961	321	209
Vermont.....	82	82	8,670	5,293	1,574	1,146	438	111	108
Virginia.....	792	769	61,795	33,590	12,233	9,685	3,973	1,282	1,032
Washington.....	631	814	55,950	33,410	10,366	7,453	3,124	896	695
West Virginia.....	340	395	28,880	17,168	5,367	3,967	1,503	432	443
Wisconsin.....	957	1,120	76,864	45,958	13,843	10,490	3,973	1,350	1,250
Wyoming.....	58	64	8,271	4,912	1,656	1,189	365	90	59
Puerto Rico.....	253	139	14,517	7,694	2,503	2,192	1,154	483	491
Virgin Islands.....	10	6	671	301	126	129	80	21	14

¹ Includes reporting units having payroll during the quarter but no employees during mid-March pay period.

Source: Dept. of Commerce, Bureau of the Census; *County Business Patterns, First Quarter, 1962, Part 1.*

No. 674. CONSUMER COOPERATIVES, BY TYPE OF ASSOCIATION: 1962 AND 1963

[Members in thousands; business in millions of dollars. Includes Alaska and Hawaii]

TYPE OF ASSOCIATION	1962			1963		
	Associa- tions	Mem- bers	Busi- ness	Associa- tions	Mem- bers	Busi- ness
Credit unions ¹	21,060	13,753	5,478	21,380	14,553	6,171
Electric power cooperatives ¹	890	4,634	660	890	4,749	696
Rural telephone cooperatives ¹	210	410	37	209	432	40
Nonprofit voluntary prepayment health plans ⁴	(NA)	9,100	442	(NA)	9,100	470
Community.....	(NA)	3,500	164	(NA)	3,500	180
Employer-employee-union.....	(NA)	5,600	278	(NA)	5,600	290
Housing ²	1,691	84	1,044	1,773	90	1,139
Farmer retail supply cooperatives ³	6,982	(NA)	2,561	6,621	(NA)	2,704
Producers' goods.....	4,400+	(NA)	1,590	4,400+	(NA)	1,708
Petroleum products.....	2,781	(NA)	625	2,782	(NA)	634
Meats and groceries.....	878	(NA)	55	800	(NA)	55
Miscellaneous.....	4,600+	(NA)	292	4,600+	(NA)	308
Associations principally engaged in farm supply business ⁵	3,206	3,636	(NA)	3,211	3,596	(NA)

NA Not available.

¹ Dept. of Health, Education, and Welfare, Social Security Admin. "Business" refers to loans outstanding.² Dept. of Agriculture, Rural Electrification Admin. Distribution cooperatives currently borrowing from REA, average number of consumers served, and total revenues.³ Dept. of Agriculture, Rural Electrification Admin. Cooperatives currently borrowing from REA, number of subscribers at end of year, annual revenues.⁴ Dept. of Health, Education, and Welfare, Social Security Admin. Estimated enrollees in December and annual income of plans.⁵ Federal Housing Admin. Cooperative projects insured, housing units, and value of mortgages, cumulative from beginning of Section 213 program, in 1950, through December 31.⁶ Dept. of Agriculture, Farmer Coop. Service. Data cover fiscal years 1961-62 and 1962-63. 1962-63, preliminary. Since many cooperatives do more than one type of business, totals are less than would be obtained by adding number of cooperatives handling individual items or performing individual services.

Source: Dept. of Labor, Bureau of Labor Statistics. Compiled from sources indicated above.

No. 675. INCOME OF UNINCORPORATED ENTERPRISES, BY INDUSTRY: 1940 TO 1963

[In millions of dollars. Beginning 1960, includes Alaska and Hawaii. Income equals business receipts (exclusive of capital gains and expenses) less business expenses (exclusive of capital losses and depletion allowances)]

INDUSTRY	1940	1945	1950	1955	1960	1962	1963
All industries.....	13,055	30,941	38,635	42,347	46,255	49,805	50,673
Agriculture, forestry, and fisheries.....	4,633	11,972	14,273	12,129	12,496	13,781	13,626
Mining.....	59	108	235	261	172	153	153
Contract construction.....	589	1,088	3,071	4,034	4,648	4,765	4,772
Manufacturing.....	615	2,361	1,685	1,626	1,475	1,489	1,550
Wholesale and retail trade.....	3,863	9,676	10,439	11,645	11,700	12,200	12,492
Finance, insurance, and real estate.....	365	767	1,573	2,455	2,677	2,806	2,845
Transportation.....	285	423	660	754	800	921	918
Communications and public utilities.....	7	23	34	62	74	68	67
Services.....	2,639	4,530	6,675	9,381	12,213	13,622	14,240

Source: Dept. of Commerce, Office of Business Economics; *Survey of Current Business*, July 1964, *National Income Supplement*, and *U.S. Income and Output*.

No. 676. SALES OF LARGEST INDUSTRIAL CORPORATIONS AND MERCHANDISING FIRMS, BY GROUP RANK OF SALES VOLUME: 1955 TO 1963

[In millions of dollars. Excludes large privately owned companies that do not publish sales. Includes sales of subsidiaries when they are consolidated. Industrial corporations: Includes service and rental revenues, but all 500 companies must have derived at least 50 percent of their revenues from mining or manufacturing for fiscal years ending not later than December 31 of year stated; excludes excise taxes collected by manufacturer. Merchandising firms: Includes all operating revenues for fiscal years ending not later than March or April following year stated]

CORPORATIONS AND FIRMS GROUPED BY SALES	1955	1957	1958	1959	1960	1961	1962	1963
INDUSTRIAL CORPORATIONS								
500 largest.....	161,399	188,313	176,832	197,398	204,724	209,195	229,061	245,061
Lowest hundred.....	6,292	7,378	7,094	8,242	8,474	8,800	9,695	10,141
Second hundred.....	8,609	10,560	9,884	11,355	11,699	12,108	13,265	14,182
Third hundred.....	13,734	16,720	15,869	17,959	18,524	18,703	20,518	22,206
Fourth hundred.....	24,458	29,061	28,628	31,732	32,637	33,581	36,194	38,626
Highest hundred.....	108,306	124,593	116,363	128,061	133,390	130,003	140,408	150,636
MERCHANDISING FIRMS								
50 largest.....	25,610	30,802	32,012	34,272	35,702	37,262	39,276	41,428
Lowest ten.....	1,168	1,493	1,697	1,924	2,221	2,359	2,526	2,792
Second ten.....	1,719	2,129	2,405	2,646	2,818	2,997	3,153	3,379
Third ten.....	2,704	3,565	3,686	4,008	4,100	4,394	4,675	4,933
Fourth ten.....	4,620	5,331	5,580	6,258	6,436	6,902	7,331	7,571
Highest ten.....	15,499	17,784	18,645	19,435	20,126	20,699	21,591	22,753

Source: Fortune, New York, N.Y.; annual supplement, *The Fortune Directory* (copyright, 1964, by Time Inc.).

No. 677. SALES, ASSETS, PROFIT, AND INVESTED CAPITAL OF LARGEST INDUSTRIAL CORPORATIONS AND MERCHANDISING FIRMS, BY GROUP RANK OF SALES VOLUME: 1962 AND 1963

[In millions of dollars. See headnote, table 676]

CORPORATIONS AND FIRMS GROUPED BY SALES	1962				1963			
	Sales	Assets ¹	Net profit ²	Invested capital ³	Sales	Assets ¹	Net profit ²	Invested capital ³
INDUSTRIAL CORPORATIONS								
500 largest.....	229,081	197,036	13,482	127,303	245,091	208,672	14,839	133,660
Lowest hundred.....	9,695	7,997	478	5,162	10,141	7,919	471	5,086
Second hundred.....	13,265	11,120	508	6,946	14,182	11,977	610	7,470
Third hundred.....	20,518	16,321	1,061	11,011	22,206	17,263	1,171	11,085
Fourth hundred.....	36,194	29,205	1,781	19,147	38,928	31,044	1,758	19,127
Highest hundred.....	140,408	132,394	9,675	86,037	159,636	140,469	10,829	90,892
MERCHANDISING FIRMS								
50 largest.....	39,276	14,080	825	8,231	41,428	15,689	883	8,636
Lowest ten.....	2,526	1,332	59	572	2,792	1,274	59	568
Second ten.....	3,153	1,138	50	550	3,379	1,219	44	530
Third ten.....	4,676	1,814	82	981	4,833	1,953	73	1,005
Fourth ten.....	7,331	2,674	144	1,599	7,571	2,883	161	1,675
Highest ten.....	21,591	7,121	510	4,583	22,753	8,362	546	4,868

¹ Total assets employed in business, at end of fiscal year, less depreciation and depletion, but including Government securities, held as offsets against tax liabilities.

² After taxes, and after special charges or credits when shown on income statement.

³ Capital stock, surplus, and retained earnings (i.e., net worth) at end of fiscal year.

Source: Fortune, New York, N.Y.; annual supplement, *The Fortune Directory* (copyright, 1964, by Time Inc.).

No. 678. SELECTED FINANCIAL ITEMS FOR LARGEST INDUSTRIAL CORPORATIONS, BY INDUSTRY: 1963

[Figures are medians for 500 largest corporations based on sales in 1963. See headnote, table 676. See also headnote, table 18, for definition of median. Minus sign (—) denotes decrease]

INDUSTRY ¹	Assets per em- ployee	Sales per em- ployee	Sales per dollar of invested capital	Return on invested capital	Return on sales	CHANGE FROM 1962 IN—	
						Sales	Profit
Total.....	<i>Dollars</i> 16,761	<i>Dollars</i> 22,031	<i>Dollars</i> 2.06	<i>Percent</i> 9.1	<i>Percent</i> 4.4	<i>Percent</i> 5.8	<i>Percent</i> 7.6
Petroleum refining.....	73,739	59,382	1.27	9.5	7.5	6.8	15.4
Tobacco.....	51,383	41,182	1.48	13.1	8.9	5.2	2.7
Mining.....	60,139	32,433	1.09	9.6	10.1	10.6	6.2
Chemicals.....	27,473	26,048	1.66	10.2	6.0	6.3	7.1
Glass, cement, gypsum, concrete.....	21,604	21,706	1.42	9.1	6.6	5.5	5.1
Metal manufacturing.....	21,345	22,162	1.63	7.5	5.0	5.1	12.7
Paper and allied products.....	20,736	20,064	1.53	7.6	5.3	3.5	0.9
Food and beverages.....	18,995	39,606	3.30	8.8	2.4	5.1	4.9
Lumber and wood products.....	18,878	25,927	2.86	11.5	3.6	24.5	47.6
Pharmaceuticals.....	18,833	21,512	1.61	14.7	10.6	5.9	10.4
Shipbuilding, railroad equipment.....	18,703	22,545	1.84	6.7	3.3	7.7	18.6
Publishing and printing.....	18,515	19,820	2.27	11.8	4.1	8.4	9.7
Soaps, cosmetics.....	17,191	26,617	2.64	14.8	7.0	7.2	11.4
Motor vehicles and parts.....	15,078	22,760	2.40	11.1	4.2	11.2	13.7
Machinery.....	13,626	18,062	1.93	9.0	4.2	6.5	9.1
Metal products.....	13,169	17,869	2.37	7.8	3.4	4.0	11.3
Rubber.....	12,766	19,275	2.45	9.0	3.4	7.4	7.0
Appliances, electronics.....	11,413	17,867	2.56	9.7	4.2	5.8	3.9
Textiles.....	10,932	15,925	2.09	6.8	3.3	3.1	—0.1
Aircraft and parts.....	8,881	18,685	4.74	10.1	2.2	6.1	1.8
Apparel.....	8,778	12,272	2.87	9.8	2.8	8.6	15.8

¹ Industry groupings are based on classifications established by the Bureau of the Budget.

Source: Fortune, New York, N.Y.; *Fortune*, July 1964 (copyright, 1964, by Time Inc.).

No. 679. ASSETS AND LIABILITIES OF ACTIVE CORPORATIONS: 1940 TO 1962

[Assets and liabilities in millions of dollars. Includes Alaska and Hawaii. See headnote, table 547. See also *Historical Statistics, Colonial Times to 1867*, series V 33 and V 65-85]

ITEM	1940	1950	1955	1959	1960	1961	1962
Number of active corporation returns.	473,042	629,314	807,303	1,074,120	1,140,574	1,190,286	1,268,042
With assets at end of year.....	413,716	509,951	746,962	1,017,767	1,095,439	1,147,481	1,235,271
Total assets or liabilities.....	320,478	598,369	888,621	1,136,668	1,206,662	1,289,516	1,388,127
ASSETS							
Cash.....	41,423	71,018	87,375	91,856	97,162	101,965	(C)
Notes and accounts receivable ¹	² 42,884	³ 108,639	⁴ 191,779	227,994	242,416	269,541	(C)
Inventories.....	19,468	54,496	70,920	85,204	91,334	94,818	100,327
Investments, government obligations.....	29,570	109,822	131,897	134,293	135,180	144,760	(C)
Other current assets.....	(C)	(C)	(C)	8,512	10,305	13,664	(C)
Mortgage and real estate loans.....	(C)	(C)	(C)	117,555	129,376	142,378	(C)
Other investments.....	⁵ 80,429	⁶ 98,780	⁷ 179,553	106,585	179,415	191,559	(C)
Capital assets ⁸	100,214	144,690	206,383	275,772	293,215	310,266	(C)
Other assets.....	⁹ 6,514	¹⁰ 12,944	¹¹ 20,703	25,490	28,259	30,566	(C)
LIABILITIES							
Notes and accounts payable ¹²	22,683	47,143	76,048	105,926	112,315	121,057	(C)
Other current liabilities.....	(C)	(C)	(C)	341,235	364,705	392,543	(C)
Bonded debt and mortgages ¹³	49,199	65,719	83,399	142,913	155,566	165,521	(C)
Other liabilities.....	110,210	261,899	403,726	157,590	167,110	176,292	(C)
Capital stock:							
Preferred.....	17,133	14,906	15,796	16,522	16,952	17,702	(C)
Common ¹⁴	72,292	79,310	93,532	118,573	123,366	128,669	(C)
Surplus and undivided profits (net).....	43,957	120,393	192,520	253,908	268,618	287,822	(C)

¹ Not tabulated.

² Less reserve for bad debts. Includes loans and discounts of banks, except mortgage and real estate loans.

³ Included partly in "Notes and accounts receivable" and partly in "Other investments."

⁴ Included partly in "Other investments" and partly in "Other assets."

⁵ Less depreciation, amortization, and depletion reserves. Includes land and intangible assets.

⁶ Includes bonds, notes, and mortgages payable with maturity of less than 1 year.

⁷ Included partly in "Other liabilities."

⁸ Represents "Bonded debt and mortgages" with maturity of 1 year or more.

⁹ Includes stock not designated as to type.

Source: Treasury Dept., Internal Revenue Service; *Statistics of Income, Corporation Income Tax Returns*.

No. 680. CURRENT ASSETS AND LIABILITIES OF U.S. CORPORATIONS: 1945 TO 1964

[In billions of dollars. As of December 31. Includes Alaska and Hawaii. Covers all U.S. corporations excluding banks, savings and loan associations, and insurance companies. 1945-1961 based on Bureau of Internal Revenue, *Statistics of Income*, covering virtually all corporations in U.S.; 1962-1964 estimated (subject to revision), based on data compiled from many different sources, including data on corporations registered with SEC]

ASSETS AND LIABILITIES	1945	1950	1955	1959	1960	1961	1962	1963	1964
Current assets	97.4	161.5	224.0	277.3	289.0	309.8	326.7	349.9	371.0
Cash on hand and in banks.....	21.7	28.1	34.0	36.3	37.2	41.1	42.9	44.5	46.0
U. S. Government securities.....	21.1	19.7	23.5	22.8	20.1	20.0	20.2	20.6	19.1
Receivables from U. S. Government ¹	2.7	1.1	2.3	2.9	3.1	3.4	3.7	3.6	3.4
Other notes and accounts receivable.....	23.2	55.7	86.6	117.7	126.1	135.8	148.7	159.7	173.8
Inventories.....	26.3	55.1	72.8	88.4	91.8	95.2	100.9	107.3	114.3
Other current assets ²	2.4	1.7	4.2	9.1	10.6	11.4	12.4	14.3	15.5
Current liabilities	45.8	79.8	121.0	153.1	160.4	171.2	184.0	193.3	209.9
Advances and prepayments, U. S. Govt. ³.....	.9	.4	2.3	1.7	1.8	1.8	2.0	2.5	2.7
Other notes and accounts payable.....	24.8	47.0	73.8	99.3	105.0	112.8	121.2	131.8	140.0
Federal income tax liabilities.....	10.4	16.7	19.3	15.0	13.5	14.1	15.0	16.3	17.0
Other current liabilities.....	9.7	14.9	25.7	37.0	40.1	42.5	45.7	48.2	50.2
Net working capital	51.6	81.6	103.0	124.2	128.6	135.6	142.8	151.2	161.1

¹ Receivables from, and payables to, U. S. Government exclude amounts offsetting each other on corporation's books or amounts arising from subcontracting not directly due from or to U. S. Government. Wherever possible, adjustments have been made to include U. S. Government advances offsetting inventories on corporation's books.

² Includes marketable securities other than U. S. Government.

Source: Securities and Exchange Commission; Statistical Series, *Net Working Capital of U. S. Corporations*. Data published quarterly.

No. 681. RECEIPTS, DEDUCTIONS, PROFITS, AND TAX OF ACTIVE CORPORATIONS: 1940 to 1962

[Money figures in millions of dollars. Includes Alaska and Hawaii. See headnote and footnotes, table 547. See *Historical Statistics, Colonial Times to 1967*, series V 113, and, for related but not comparable data, series V 86-97]

ITEM	1940	1950	1955	1959	1960	1961	1962
Number of active corporation returns	473,042	629,314	807,303	1,074,120	1,140,574	1,190,286	1,268,042
With assets at end of year.....	413,716	569,961	746,962	1,017,767	1,095,439	1,147,481	1,235,271
Under \$100,000.....	286,053	338,499	431,074	589,642	639,479	669,972	708,113
\$100,000 to \$999,999.....	104,396	190,331	260,134	364,204	389,307	408,715	454,730
\$1,000,000 to \$49,999,999.....	22,496	39,847	53,893	61,602	64,175	66,162	69,596
\$50,000,000 and over.....	771	1,284	1,861	2,319	2,478	2,632	2,832
With no assets at end of year.....	59,326	59,353	60,341	50,353	45,135	42,805	32,771
Compiled receipts	148,237	458,130	642,248	816,800	849,132	873,178	949,305
Gross sales.....	114,642	374,406	514,864	772,915	802,791	823,943	895,120
Gross receipts from other operations.....	24,482	65,475	97,819	42,945	45,303	48,048	52,903
Other taxable receipts.....	8,329	17,854	29,015	42,945	45,303	48,048	52,903
Wholly and partially tax-exempt interest on Government obligations.....	783	394	550	940	1,038	1,187	1,282
Compiled deductions	138,889	415,299	594,299	769,145	804,633	826,144	898,463
Cost of goods sold.....	80,739	284,699	390,323	557,062	577,039	586,557	638,036
Cost of operations.....	12,297	36,558	58,242	12,558	14,622	15,646	18,435
Interest paid.....	2,701	3,212	7,058	12,558	14,622	15,646	18,435
Taxes paid ²	4,317	9,013	14,203	19,189	21,180	22,249	24,803
Depreciation, amortization, depletion.....	4,003	9,611	18,815	25,299	26,899	28,246	32,007
Other deductions.....	28,832	72,206	105,658	155,037	164,943	173,266	185,182
Compiled net profit or loss	9,348	42,831	47,949	47,655	44,499	47,034	50,842
Net income less deficit.....	8,919	42,613	47,478	46,797	43,505	45,894	49,606
Statutory prior year loss deduction.....	123	345	836	1,436	1,286	1,497	1,763
Total income and profit taxes.....	2,549	17,317	21,741	22,525	21,866	22,188	23,930
Compiled net profit less total tax.....	6,800	25,614	26,208	25,130	22,633	24,846	27,746
Distributions to stockholders:							
Cash.....	6,089	11,653	13,592	16,242	17,193	18,038	19,565
Stock.....	140	1,292	1,996	2,174	1,966	2,177	2,149

¹ Interest on Treasury notes issued on or after Dec. 1, 1940, and on obligations issued on or after Mar. 1, 1941, by the United States or any agency or instrumentality thereof, is wholly taxable and is included in "Other taxable receipts" for 1950-1962.

² Excludes (a) Federal income and profits taxes; (b) estate, inheritance, legacy, succession, and gift taxes; (c) income and profits taxes paid to a foreign country or possession of the United States if any portion was claimed as a tax credit; (d) taxes assessed against certain local benefits; (e) Federal taxes on tax-free covenant bonds; and (f) unidentifiable amounts of taxes reported in "Cost of sales and operations," 1955-1962. For prior years, excludes all taxes reported in these costs.

Source: Treasury Dept., Internal Revenue Service; *Statistics of Income, Corporation Income Tax Returns*.

No. 682. CORPORATE PROFITS, TAXES, DIVIDENDS, AND NEW INCORPORATIONS: 1940 to 1964

[Money figures in millions of dollars; number in thousands. Beginning 1960, includes Alaska and Hawaii, except as noted. Data are for corporations organized for profit. Represent profits accruing to U.S. residents, without deduction of depletion charges and exclusive of capital gains and losses; intercorporate dividends from profits of domestic corporations are eliminated; net receipts of dividends and branch profits from abroad are added. In other major respects, the definition of profits is in accordance with Federal income tax regulations. Taxes refer to Federal and State corporate income and excess profits taxes. Cash dividends represent amount disbursed to U.S. residents, and therefore are measured after elimination of intercorporate dividends. Undistributed profits represent difference between corporate profits after taxes and net dividend payments]

YEAR	Profits before taxes	Income tax liability	Profits after taxes	Cash dividends	Undistributed profits	New incorporations ¹
1940.....	9,320	2,834	6,486	4,043	2,443	(NA)
1945.....	18,977	10,689	8,288	4,691	3,597	² 36
1950.....	40,628	17,865	22,763	9,208	13,555	93
1955.....	44,862	21,827	23,035	11,215	11,820	140
1958.....	37,410	18,646	18,764	12,358	6,406	150
1959.....	47,657	23,188	24,469	13,682	10,787	193
1960.....	44,261	22,252	22,009	14,523	7,486	183
1961.....	44,187	22,267	21,920	15,172	6,748	182
1962.....	48,183	23,174	25,009	16,525	8,484	182
1963.....	51,267	24,550	26,717	17,977	8,740	186
1964.....	57,600	25,800	31,800	19,800	11,900	198

NA Not available.

¹ Compiled by Dun & Bradstreet, Inc. Beginning 1959, includes Hawaii.

² July to December only.

Source: Dept. of Commerce, Office of Business Economics; *Survey of Current Business and U.S. Income and Output*.

No. 683. ACTIVE CORPORATION INCOME TAX RETURNS, BY ASSET SIZE-CLASS AND INDUSTRIAL DIVISION: 1962

[Money figures in millions of dollars. Includes Alaska and Hawaii. See headnote and footnotes, table 547. See also *Historical Statistics, Colonial Times to 1957*, series V 113-127, for asset size-class, and series V 98-112, for industrial divisions]

ITEM	Total	ASSET SIZE-CLASS						
		Under \$100 thousand	\$100 to \$999.9 thousand	\$1 to \$24.9 million	\$25 to \$49.9 million	\$50 to \$99.9 million	\$1 to \$2.49 billion	\$2.5 billion and over
All industrial divisions:								
Number of returns.....	1,268,042	740,884	454,730	67,206	2,390	1,289	905	638
Total assets or liabilities.....	1,388,127	25,132	130,176	271,953	82,918	89,569	139,575	648,813
Total compiled receipts.....	949,305	64,107	230,929	227,854	44,377	46,080	72,028	263,331
Net income less deficit.....	49,606	509	5,173	9,052	2,519	2,917	5,254	24,181
Income tax.....	23,930	472	2,290	4,725	1,223	1,414	2,294	11,512
Agriculture, forestry, and fisheries:								
Number of returns.....	22,130	12,478	8,987	658	4	2	-	1
Total assets or liabilities.....	5,176	501	2,450	1,643	127	145	-	309
Total compiled receipts.....	6,289	1,107	3,082	1,465	78	132	-	424
Net income less deficit.....	161	1	-69	55	11	17	-	9
Income tax.....	81	6	31	27	5	9	-	4
Mining:								
Number of returns.....	13,539	7,070	5,183	1,195	40	19	20	12
Total assets or liabilities.....	17,942	225	1,664	4,645	1,403	1,284	3,144	5,378
Total compiled receipts.....	12,629	372	1,810	3,282	791	654	1,851	3,769
Net income less deficit.....	794	18	4	76	29	67	137	498
Income tax.....	534	6	23	72	23	41	64	306
Construction:								
Number of returns.....	90,604	59,305	28,635	2,619	30	11	4	-
Total assets or liabilities.....	19,467	1,895	8,051	7,000	1,017	838	665	-
Total compiled receipts.....	41,065	6,868	19,436	12,186	1,211	962	402	-
Net income less deficit.....	617	14	299	202	44	43	15	-
Income tax.....	367	27	147	148	24	17	5	-
Manufacturing:								
Number of returns.....	183,149	88,286	77,853	15,892	488	293	196	141
Total assets or liabilities.....	292,640	3,178	24,576	57,340	16,972	20,786	30,653	139,135
Total compiled receipts.....	407,865	11,229	58,377	97,874	22,394	26,557	40,551	150,882
Net income less deficit.....	25,351	109	1,445	4,893	1,486	1,711	2,798	12,909
Income tax.....	12,643	128	718	2,623	769	898	1,402	6,116
Transportation, communication, electric, gas, and sanitary services:								
Number of returns.....	52,701	33,825	15,806	2,677	101	86	88	118
Total assets or liabilities.....	161,025	1,103	4,829	10,414	3,681	6,100	14,089	120,910
Total compiled receipts.....	73,156	2,563	6,551	9,670	1,901	2,747	5,865	43,859
Net income less deficit.....	8,011	37	272	573	175	262	692	6,000
Income tax.....	4,180	29	113	302	93	135	358	3,151
Wholesale and retail trade:								
Number of returns.....	388,852	234,287	143,827	10,501	130	48	41	18
Total assets or liabilities.....	101,563	8,577	38,880	29,633	4,363	3,157	6,281	10,673
Total compiled receipts.....	298,336	32,286	122,988	81,832	12,463	10,126	13,602	24,989
Net income less deficit.....	5,172	120	1,790	1,498	293	267	369	836
Income tax.....	2,508	126	718	778	148	135	195	409
Finance, insurance, and real estate: ²								
Number of returns.....	359,229	186,976	138,153	30,835	1,558	816	546	345
Total assets or liabilities.....	764,787	6,676	40,155	152,641	54,083	56,353	83,306	371,684
Total compiled receipts.....	51,859	2,681	7,984	13,767	4,572	4,804	8,871	38,881
Net income less deficit.....	8,681	224	1,023	1,426	420	433	1,242	3,862
Income tax.....	3,092	95	392	670	135	150	255	1,495
Services:								
Number of returns.....	150,082	111,473	35,754	2,789	39	14	10	3
Total assets or liabilities.....	25,219	2,895	9,448	8,345	1,371	897	1,437	826
Total compiled receipts.....	29,095	6,664	10,664	7,690	966	697	887	528
Net income less deficit.....	833	38	270	330	61	68	1	66
Income tax.....	524	54	148	206	37	31	15	32
Nature of business not allocable:								
Number of returns.....	7,756	7,184	532	40	-	-	-	-
Total assets or liabilities.....	298	82	124	92	-	-	-	-
Total compiled receipts.....	110	37	35	37	-	-	-	-
Net income less deficit.....	114	16	2	(Z)	-	-	-	-
Income tax.....	2	1	1	(Z)	-	-	-	-

- Entry represents zero. Z Less than \$500,000. ¹ Deficit. ² Includes lessors of real property.

Source: Treasury Dept., Internal Revenue Service; *Statistics of Income, 1962, Corporation Income Tax Returns.*

No. 684. CORPORATE PROFITS, BY INDUSTRY: 1950 TO 1963

[In millions of dollars. Beginning 1960, includes Alaska and Hawaii. See headnote, table 682]

INDUSTRY	BEFORE TAXES				AFTER TAXES			
	1950	1955	1960	1963	1950	1955	1960	1963
All industries.....	40,628	44,862	44,261	51,267	22,763	23,035	22,009	26,717
Agriculture, forestry, and fisheries.....	182	43	33	86	84	-17	-27	8
Mining.....	1,368	1,321	1,018	929	972	899	777	767
Contract construction.....	538	419	801	521	282	188	-1	162
Manufacturing.....	23,579	26,310	22,743	27,185	12,666	13,201	11,484	13,936
Wholesale and retail trade.....	6,255	4,925	4,413	5,406	3,546	2,584	1,966	2,823
Finance, insurance, and real estate.....	3,043	4,150	6,211	5,687	1,629	2,015	2,493	2,227
Transportation.....	1,981	1,468	766	1,084	1,081	626	165	443
Communications and public utilities.....	2,202	4,096	6,218	7,300	1,263	1,999	3,084	3,775
Services.....	480	572	678	554	240	212	208	71
Rest of the world.....	1,000	1,558	1,880	2,515	1,000	1,558	1,880	2,515

Source: Dept. of Commerce, Office of Business Economics; *Survey of Current Business*, July 1964, and *U.S. Income and Output*.

No. 685. SALES, PROFITS, AND DIVIDENDS OF LARGE MANUFACTURING CORPORATIONS: 1948 TO 1964

[In millions of dollars. Includes data for 177 corporations each with sales of \$150 million or more in 1957. Profits before and after taxes are as published by the 177 companies except for certain adjustments, chiefly to exclude special charges and credits and intercorporate dividends where large. Figures include little or no representation of some important nondurable goods groups such as meatpacking and rubber]

INDUSTRY	1948	1950	1955	1960	1961	1962	1963	1964 (prel.)
Total (177 corporations):								
Sales.....	56,071	66,943	104,877	123,911	123,669	136,545	147,380	157,633
Profits before taxes ¹	7,902	11,638	14,864	13,543	13,288	15,330	17,337	18,821
Profits after taxes.....	4,858	6,014	7,585	7,161	7,187	8,215	9,138	10,520
Dividends.....	1,883	3,067	3,855	4,485	4,730	5,048	5,444	5,930
Nondurable goods industries (78 corp.):²								
Sales.....	23,241	25,455	36,879	47,372	49,362	52,245	55,372	59,266
Profits before taxes ¹	3,538	4,303	4,986	5,579	5,602	5,896	6,333	6,896
Profits after taxes.....	2,270	2,367	2,800	3,215	3,225	3,403	3,646	4,137
Dividends.....	844	1,266	1,581	1,948	2,031	2,150	2,265	2,404
Durable goods industries (99 corp.):²								
Sales.....	32,830	41,488	67,997	76,540	74,307	84,300	92,008	98,377
Profits before taxes ¹	4,364	7,335	9,868	7,964	7,666	9,434	11,004	11,925
Profits after taxes.....	2,588	3,646	4,786	3,946	3,942	4,812	5,492	6,383
Dividends.....	1,039	1,800	2,274	2,536	2,699	2,898	3,179	3,526
Selected industries:								
Food and kindred products (26 corp.):								
Sales.....	6,770	6,797	8,912	12,202	12,951	13,457	14,301	15,209
Profits before taxes ¹	700	861	891	1,342	1,440	1,460	1,546	1,569
Profits after taxes.....	428	467	425	639	682	698	747	807
Dividends.....	225	247	264	372	397	425	448	479
Chemicals and allied prod. (20 corp.):								
Sales.....	5,200	6,057	9,325	12,205	12,606	13,759	14,623	16,077
Profits before taxes ¹	947	1,539	1,816	2,005	1,979	2,162	2,286	2,596
Profits after taxes.....	525	724	930	1,058	1,034	1,126	1,182	1,404
Dividends.....	209	521	679	786	833	868	904	924
Petroleum refining (16 corporations):								
Sales.....	7,212	7,872	11,515	13,815	14,483	15,106	16,043	16,583
Profits before taxes ¹	1,297	1,167	1,344	1,267	1,237	1,319	1,487	1,558
Profits after taxes.....	967	800	979	1,026	1,025	1,099	1,204	1,309
Dividends.....	282	353	438	521	528	566	608	670
Primary metals and prod. (34 corp.):								
Sales.....	11,968	13,965	20,643	20,828	20,224	21,260	22,116	24,114
Profits before taxes ¹	1,707	2,318	3,263	2,214	1,999	1,838	2,178	2,577
Profits after taxes.....	1,051	1,194	1,649	1,169	1,067	1,013	1,183	1,485
Dividends.....	401	529	727	838	843	820	784	763
Machinery (24 corporations):								
Sales.....	6,704	7,987	12,391	16,681	17,446	19,057	21,144	22,653
Profits before taxes ¹	826	1,334	1,286	1,509	1,701	1,924	2,594	2,733
Profits after taxes.....	489	671	653	768	859	966	1,177	1,399
Dividends.....	185	298	374	494	508	531	577	673
Automobiles and equip. (14 corp.):								
Sales.....	10,660	15,173	25,102	26,275	23,314	29,156	32,927	35,323
Profits before taxes ¹	1,330	2,887	4,038	3,197	2,786	4,337	5,004	4,997
Profits after taxes.....	753	1,866	1,854	1,534	1,404	2,143	2,387	2,625
Dividends.....	312	777	880	857	973	1,151	1,447	1,630

¹ After all charges and before Federal income taxes and dividends.² Nondurable includes 17 companies in groups not shown separately; durable, 27.Source: Board of Governors of the Federal Reserve System; *Federal Reserve Bulletin*.

No. 686. RATES OF PROFIT AFTER TAXES ON STOCKHOLDERS' EQUITY IN MANUFACTURING CORPORATIONS: 1947 TO 1964

[Percent. Includes Alaska and Hawaii. Data are averages of quarterly figures at annual rates. Based on sample; see source for discussion of methodology. Excludes newspapers]

INDUSTRY GROUP	1947	1950	1955	1958	1959	1960	1961	1962	1963	1964
Total	15.6	15.4	12.6	8.6	10.4	9.2	8.8	9.8	10.2	11.6
Durable goods	14.5	16.8	13.8	8.0	10.4	8.6	8.1	9.6	10.1	11.8
Transportation equipment.....	11.0	21.5	20.2	8.8	12.9	11.7	10.6	15.0	15.2	15.8
Electrical machinery, equipment, and supplies.....	19.0	20.8	12.3	10.2	12.4	9.5	8.9	10.0	10.0	11.2
Other machinery.....	15.8	14.0	10.3	6.8	9.7	7.6	7.8	9.1	9.6	12.5
Other fabricated metal products.....	17.7	15.9	10.0	7.2	8.0	5.6	5.9	7.9	8.3	10.1
Primary metal industries.....	12.2	14.5	14.1	6.8	8.0	7.2	6.4	6.2	7.2	9.2
Stone, clay, and glass products.....	14.0	17.6	15.6	10.1	12.7	9.9	8.8	8.8	8.6	9.6
Furniture and fixtures.....	18.1	15.1	9.2	6.2	8.8	6.5	4.9	7.9	8.2	10.1
Lumber and wood products, exc. furniture.....	22.9	17.4	11.1	5.7	9.3	3.6	4.0	5.6	8.2	10.0
Instruments and related products.....	14.4	16.7	12.5	10.6	13.0	11.6	10.5	12.0	12.0	14.3
Misc. manufacturing, and ordinance.....	14.0	12.2	8.6	8.0	9.2	9.2	9.5	9.3	8.8	9.6
Nondurable goods	16.6	14.0	11.4	9.2	10.4	9.8	9.6	9.9	10.4	11.5
Food and kindred products.....	17.6	12.3	8.9	8.7	9.3	8.7	8.9	8.8	9.0	10.0
Tobacco manufactures.....	10.1	11.5	11.4	13.5	13.4	13.4	13.6	13.1	13.4	13.4
Textile mill products.....	19.5	12.6	5.7	8.6	7.6	5.8	5.0	6.2	6.0	8.5
Apparel and other finished products.....	18.9	10.1	6.2	4.9	8.6	7.7	7.0	9.3	7.7	11.7
Paper and allied products.....	22.1	16.1	11.5	8.0	9.5	8.5	7.8	8.1	8.1	9.3
Printing and publishing, exc. newspapers.....	17.2	11.5	10.2	9.0	11.4	10.6	8.5	10.2	9.1	12.6
Chemicals and allied products.....	16.0	17.8	14.7	11.4	13.6	12.2	11.8	12.4	12.9	14.4
Petroleum refining and related industries.....	14.8	13.8	13.2	9.9	9.8	10.1	10.3	10.0	11.2	11.4
Rubber and misc. plastics products.....	12.4	16.7	13.2	9.1	11.0	9.1	9.3	9.6	9.2	10.6
Leather and leather products.....	14.1	10.9	8.5	5.6	8.4	6.3	4.4	6.9	6.9	10.5

Source: Federal Trade Commission and Securities and Exchange Commission; *Quarterly Financial Report for Manufacturing Corporations*.

No. 687. REVENUES, PROFITS, AND DIVIDENDS OF PUBLIC UTILITY CORPORATIONS: 1940 TO 1964

[In millions of dollars]

PUBLIC UTILITY	1940	1945	1950	1955	1960	1961	1962	1963	1964 (Prel.)
Railroad: ¹									
Operating revenue.....	4,297	8,902	9,473	10,106	9,514	9,189	9,440	9,560	9,857
Profits before taxes ²	249	766	1,385	1,341	648	625	729	816	836
Profits after taxes.....	189	450	784	927	445	382	572	651	698
Dividends.....	159	246	312	448	385	359	367	356	451
Electric power: ³									
Operating revenue.....	2,797	3,682	5,528	8,360	11,906	12,478	13,489	14,294	14,968
Profits before taxes ²	992	905	1,313	2,304	3,163	3,349	3,583	3,735	3,947
Profits after taxes.....	548	534	822	1,244	1,793	1,883	2,062	2,187	2,385
Dividends.....	447	407	619	942	1,307	1,374	1,462	1,567	1,672
Telephone: ⁴									
Operating revenue.....	1,206	1,979	3,342	5,425	8,111	8,615	9,196	9,796	10,550
Profits before taxes ²	257	433	580	1,282	2,326	2,478	2,639	2,815	3,069
Profits after taxes.....	193	174	331	638	1,155	1,233	1,327	1,417	1,690
Dividends.....	167	162	276	496	806	867	935	988	1,065

¹ Class I line-haul railroads.

² After all charges and before Federal income taxes and dividends.

³ Class A and B electric utilities.

⁴ Revenues and profits for telephone operations of Bell System Consolidated (including the 20 operating subsidiaries and Long Lines and General departments of American Telephone and Telegraph Company) and of 2 affiliated telephone companies. Dividends for the 20 operating subsidiaries and 2 affiliates.

Source: Board of Governors of the Federal Reserve System; *Federal Reserve Bulletin*.

No. 688. RATES OF PROFIT OF ALL MANUFACTURING CORPORATIONS, BY ASSET SIZE-CLASS: 1963 AND 1964
 [Includes Alaska and Hawaii. Based on sample; see source for discussion of methodology. Excludes newspapers]

ITEM	All asset sizes	ASSET SIZE-CLASS					
		Under \$1,000,000	\$1,000,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 to \$49,999,999	\$50,000,000 to \$99,999,999	\$100,000,000 and over
PROFITS PER DOLLAR OF SALES (in cents)							
Before Federal income taxes:							
1963: First quarter.....	7.7	1.8	3.5	5.3	6.3	7.0	9.9
Second quarter.....	9.0	4.0	5.0	6.6	7.9	8.2	10.9
Third quarter.....	8.3	4.0	5.3	6.7	7.9	8.1	10.0
Fourth quarter.....	8.9	2.6	4.4	6.2	7.7	8.5	11.1
1964: First quarter.....	8.6	2.9	4.6	5.9	6.7	7.8	10.6
Second quarter.....	9.5	4.3	5.7	6.9	8.1	9.0	11.3
Third quarter.....	8.7	4.8	6.1	6.7	8.5	8.8	10.2
Fourth quarter.....	8.8	3.1	5.3	6.5	8.1	8.7	10.8
After Federal income taxes:							
1963: First quarter.....	4.2	0.6	1.4	2.4	2.9	3.5	5.6
Second quarter.....	5.0	2.4	2.4	3.3	3.9	4.2	6.1
Third quarter.....	4.6	2.3	2.6	3.3	4.0	4.1	5.8
Fourth quarter.....	5.1	1.4	2.2	3.0	3.9	4.5	6.5
1964: First quarter.....	4.9	1.6	2.1	2.9	3.4	4.1	6.1
Second quarter.....	5.5	2.7	2.9	3.6	4.3	4.8	6.6
Third quarter.....	5.1	3.1	3.3	3.5	4.5	4.7	6.1
Fourth quarter.....	5.4	1.9	2.9	3.5	4.5	5.0	6.7
ANNUAL RATE ON STOCK- HOLDERS' EQUITY (percent)							
Before Federal income taxes:							
1963: First quarter.....	16.0	8.2	11.5	13.5	13.1	14.6	17.2
Second quarter.....	19.9	20.0	17.3	18.4	17.8	18.3	20.3
Third quarter.....	17.8	19.9	18.1	18.7	17.9	17.7	18.0
Fourth quarter.....	19.9	13.1	15.3	17.5	17.8	18.6	20.8
1964: First quarter.....	18.5	13.6	15.3	15.6	14.9	16.8	19.2
Second quarter.....	21.4	21.3	20.6	19.6	19.3	20.4	21.5
Third quarter.....	19.0	24.0	21.2	19.2	20.5	20.0	18.8
Fourth quarter.....	20.2	16.1	18.9	19.5	19.9	20.4	20.8
After Federal income taxes:							
1963: First quarter.....	8.6	2.5	4.7	6.1	6.1	7.3	9.6
Second quarter.....	11.0	11.9	8.4	9.1	9.0	9.4	11.3
Third quarter.....	10.0	11.5	8.9	9.3	9.0	9.0	10.2
Fourth quarter.....	11.4	6.9	7.4	8.4	9.0	9.9	12.1
1964: First quarter.....	10.5	7.4	7.0	7.7	7.4	8.8	11.1
Second quarter.....	12.3	13.3	10.6	10.1	10.2	10.9	12.4
Third quarter.....	11.2	15.5	11.4	10.1	10.8	10.7	11.1
Fourth quarter.....	12.4	10.0	10.3	10.6	11.0	11.7	12.7

Source: Federal Trade Commission and Securities and Exchange Commission; *Quarterly Financial Report for Manufacturing Corporations*.

No. 689. CORPORATE DISTRIBUTIONS TO STOCKHOLDERS, BY INDUSTRIAL DIVISIONS: 1945 TO 1962

[In millions of dollars. Includes Alaska and Hawaii. See headnote, table 547]

INDUSTRIAL DIVISION	1945		1950		1960		1962	
	Cash	Stock	Cash	Stock	Cash	Stock	Cash	Stock
All industrial divisions.....	6,080.8	334.4	11,553.0	1,292.5	17,193.2	1,965.6	19,564.8	2,148.9
Agriculture, forestry, and fisheries.....	27.6	1.0	108.5	4.8	50.4	6.5	61.1	5.8
Mining.....	159.8	1.9	552.8	10.5	813.6	62.8	946.1	31.7
Construction.....	29.5	3.2	82.7	27.9	115.6	37.1	134.4	24.6
Manufacturing.....	2,824.7	146.2	6,061.9	799.7	8,028.3	1,051.9	9,507.9	1,184.8
Transportation, communication, electric, gas, and sanitary services.....	1,243.0	6.7	1,649.0	94.1	3,199.4	167.8	3,578.7	179.8
Wholesale and retail trade.....	557.4	60.7	1,144.8	225.2	1,231.5	258.4	1,314.2	231.8
Finance, insurance, and real estate.....	1,101.1	106.7	1,778.2	115.3	3,466.3	349.3	3,778.3	454.3
Services.....	132.3	7.9	172.2	14.8	276.6	31.6	221.0	36.2
Nature of business not allocable.....	5.5	.2	4.9	.2	11.5	.2	23.0	(S)

S Does not meet publication standards because of high sampling variability.

Source: Treasury Dept., Internal Revenue Service; *Statistics of Income, Corporation Income Tax Returns*.

New Plant and Equipment Expenditures

501

No. 690. BUSINESS EXPENDITURES FOR NEW PLANT AND EQUIPMENT: 1945 TO 1965

[In billions of dollars. Excludes Alaska and Hawaii. Excludes expenditures of agricultural business and outlays charged to current account]

INDUSTRY GROUP	1945	1950	1955	1960	1961	1962	1963	1964	1965 ¹
Total	8.69	20.60	28.70	35.68	34.37	37.31	39.22	44.90	50.17
Manufacturing	3.98	7.49	11.44	14.48	13.63	14.68	15.60	18.58	21.53
Durable goods industries.....	1.59	3.14	5.44	7.18	6.27	7.03	7.85	9.43	10.71
Primary iron and steel.....	.20	.60	.86	1.60	1.13	1.10	1.24	1.60	1.88
Primary nonferrous metals.....	.05	.13	.21	.31	.26	.31	.41	.43	.66
Electrical machinery and equipment.....	.12	.24	.44	.68	.69	.68	.69	.65	.82
Machinery, except electrical.....	.32	.41	.81	1.10	1.10	1.27	1.24	1.64	1.92
Motor vehicles and equipment.....	.26	.51	1.13	.89	.75	.83	1.06	1.51	1.67
Transportation equipment, excluding motor vehicles.....	.06	.08	.27	.42	.38	.47	.53	.48	.49
Stone, clay, and glass products.....	.10	.28	.60	.62	.61	.68	.61	.68	.80
Other durable goods ².....	.48	.87	1.21	1.56	1.45	1.79	2.05	2.28	2.47
Nondurable goods industries	2.30	4.36	6.00	7.30	7.40	7.65	7.84	9.16	10.83
Food and beverages.....	.43	.76	.72	.92	.98	.89	.97	1.06	1.18
Textile-mill products.....	.21	.45	.37	.53	.50	.61	.64	.76	1.02
Paper and allied products.....	.12	.33	.52	.75	.68	.72	.72	.94	1.06
Chemicals and allied products.....	.38	.77	1.02	1.60	1.62	1.56	1.81	1.97	2.45
Petroleum and coal products.....	.88	1.59	2.80	2.64	2.76	2.88	2.92	3.36	3.79
Rubber products.....	.12	.10	.16	.23	.22	.23	.24	.27	.35
Other nondurable goods ³.....	.26	.35	.44	.64	.65	.66	.73	.80	1.00
Mining.....	.38	.71	.96	.99	.98	1.08	1.04	1.19	1.31
Railroad.....	.55	1.11	.92	1.03	.67	.85	1.10	1.41	1.62
Transportation, other than rail.....	.57	1.21	1.60	1.94	1.85	2.07	1.92	2.38	2.57
Public utilities.....	.50	3.31	4.31	5.68	5.52	5.48	5.65	6.22	6.56
Communication.....	.32	1.10	1.98	3.13	3.22	3.63	3.79	4.30	4.88
Commercial and other⁴	2.38	5.67	7.49	8.44	8.45	9.52	10.03	10.53	16.58

¹ Estimates based on anticipated capital expenditures as reported by business in February 1965.

² Comprises fabricated metal products, lumber products, furniture and fixtures, instruments, ordnance, and miscellaneous manufactures.

³ Comprises apparel and related products, tobacco, leather and leather products, and printing and publishing.

⁴ Comprises trade, service, finance, and construction.

Source: Securities and Exchange Commission and Dept. of Commerce, Office of Business Economics. Data published quarterly in Statistical Series releases of the Securities and Exchange Commission and in *Survey of Current Business*.

No. 691. BUSINESS EXPENDITURES FOR NEW PLANT AND EQUIPMENT, QUARTERLY TOTALS AT ANNUAL RATES: 1963 TO 1965

[In billions of dollars. Excludes Alaska and Hawaii. Seasonally adjusted. Excludes expenditures of agricultural business and outlays charged to current account]

INDUSTRY	1963				1964				1965 ¹		
	Jan.-Mar.	Apr.-June	July-Sept.	Oct.-Dec.	Jan.-Mar.	Apr.-June	July-Sept.	Oct.-Dec.	Jan.-Mar.	Apr.-June	July-Dec.
Total	37.0	38.1	40.0	41.2	42.6	43.5	45.6	47.8	48.8	49.7	50.9
Manufacturing	14.9	15.3	16.0	16.5	17.4	17.8	18.8	20.2	21.0	21.3	21.9
Durable goods.....	7.4	7.7	8.0	8.3	8.9	9.0	9.6	10.2	10.6	10.6	10.8
Nondurable goods.....	7.5	7.7	8.0	8.2	8.6	8.8	9.2	10.0	10.4	10.7	11.0
Mining	1.1	1.0	1.1	1.1	1.2	1.1	1.2	1.3	1.2	1.3	1.4
Railroad.....	.9	1.0	1.2	1.4	1.4	1.3	1.5	1.5	1.7	1.5	1.6
Transportation, other than rail	1.7	2.1	1.9	2.1	2.3	2.3	2.4	2.6	2.5	2.7	2.5
Public utilities	5.2	5.5	5.9	5.8	6.0	6.3	6.3	6.4	6.4	6.4	6.7
Commercial and other²	13.2	13.3	14.1	14.5	14.3	14.8	15.4	15.8	16.0	16.4	16.9

¹ Estimates based on anticipated capital expenditures as reported by business in February 1965.

² Comprises trade, service, finance, construction, and communication.

Source: Dept. of Commerce, Office of Business Economics, and Securities and Exchange Commission; in *Survey of Current Business*.

No. 692. GROSS PRIVATE DOMESTIC INVESTMENT AND ITS COMPONENTS: 1940 TO 1964

[In billions of dollars. Beginning 1960, includes Alaska and Hawaii. Consists of acquisitions of newly produced capital goods by private business and nonprofit institutions and of value of change in volume of inventories held by them; covers all private new dwellings, including those acquired by owner-occupants. Series revised beginning 1940. For details, see *U.S. Income and Output*. See also *Historical Statistics, Colonial Times to 1867*, series F 72-80.]

CLASS	1940	1950	1955	1959	1960	1961	1962	1963	1964 (prel.)
Gross private domestic investment.....	13.2	50.0	63.8	72.7	72.4	68.8	79.1	82.0	87.7
Nonfarm producers' plant and equipment ¹	7.0	23.4	33.4	36.7	40.3	38.6	42.1	44.4	49.2
Equipment ²	4.9	16.2	20.6	23.1	25.1	23.3	26.3	27.9	31.6
Construction ³	2.0	7.2	12.8	13.7	15.1	15.3	15.8	16.4	17.6
Farm equipment and construction ⁴.....	.8	4.4	4.1	4.5	4.1	4.3	4.4	4.6	5.1
Residential construction (nonfarm).....	3.0	14.1	18.7	22.3	21.1	21.1	23.6	25.2	26.0
Other private construction ⁴.....	.2	1.3	1.8	2.6	2.9	3.0	3.2	3.3	3.8
Net change in business inventories ⁵	2.2	6.8	5.8	6.6	4.1	1.9	5.0	4.4	3.7
Nonfarm.....	1.9	6.0	5.5	6.5	3.7	1.5	5.3	3.9	3.6
Farm.....	.3	.8	.3	.1	.3	.3	.6	.5	.1

¹ Items for nonfarm producers' plant and equipment are not comparable with those shown in table 690 principally because the latter exclude equipment and construction outlays charged to current expense and also investment by nonprofit organizations and professional persons.

² Total producers' durable equipment less farm machinery and equipment, and farmers' purchases of tractors and business motor vehicles.

³ Industrial buildings, public utilities, gas- and oil-well drilling, warehouses, office and loft buildings, stores, restaurants, garages, miscellaneous nonresidential construction, and all other private construction.

⁴ Farm construction (residential and nonresidential) plus farm machinery and equipment, and farmers' purchases of tractors and business motor vehicles. (See footnote 2.)

⁵ Includes religious, educational, social and recreational, and hospital and institutional.

⁶ After inventory valuation adjustment.

Source: Dept. of Commerce, Office of Business Economics; *Survey of Current Business*, and unpublished data.

No. 693. USES AND SOURCES OF CORPORATE FUNDS: 1950 TO 1964

[In billions of dollars. Includes Alaska and Hawaii in many of the components. Covers nonfinancial business corporations only, excluding banking and insurance companies which are primarily suppliers of capital funds for business or intermediaries in flow of savings from consumers to business. Based on Securities and Exchange Commission and other financial data. Data through 1960 have been adjusted to Internal Revenue Service statistics. Minus sign (-) indicates a reduction in assets or liabilities.]

USE OR SOURCE	1950	1955	1958	1959	1960	1961	1962	1963	1964
Uses.....	45.3	50.6	35.3	52.1	43.8	48.8	54.4	58.4	61.3
Increase in physical assets.....	26.7	30.9	24.0	34.2	33.3	30.9	36.4	37.5	42.8
Plant and equipment.....	16.9	24.2	26.4	27.7	30.8	29.6	32.0	33.8	39.4
Inventories (book value).....	9.8	6.7	-2.4	6.6	2.5	1.3	4.4	3.7	3.4
Increase in financial assets.....	18.6	19.7	11.3	17.9	10.5	17.8	18.0	20.8	18.4
Receivables.....	13.8	11.9	6.7	10.0	8.6	9.9	11.3	12.9	13.9
Consumer.....	1.8	3.3	-3	2.4	1.8	.1	2.2	2.4	2.7
Other.....	12.0	8.6	6.9	8.4	6.9	9.8	9.1	10.5	11.1
Cash and U.S. Government securities.....	4.5	5.0	2.7	2.9	-1.7	3.6	2.0	2.0	-1.0
Cash (including deposits).....	1.6	1.2	2.5	-1.1	1.0	3.8	1.8	1.7	.6
U.S. Government securities.....	2.9	3.8	.2	4.0	-2.6	-.2	.3	.4	-1.5
Other assets.....	.3	2.8	1.9	4.1	3.5	4.3	4.7	5.9	5.6
Sources.....	44.2	50.3	39.4	57.1	46.2	52.3	59.2	62.5	66.6
Internal sources.....	20.8	26.6	26.0	31.1	29.1	29.7	35.2	36.8	42.1
Retained profits ¹	13.0	10.9	6.7	9.5	6.2	5.6	7.7	8.0	11.6
Depreciation.....	7.8	15.7	20.3	21.6	22.9	24.1	27.5	28.8	30.5
External long-term sources.....	4.2	8.6	10.9	9.5	9.8	11.8	11.3	10.9	13.4
Stocks.....	1.7	2.7	3.6	3.7	3.0	4.5	2.1	.6	2.9
Bonds.....	2.0	4.2	5.9	4.1	5.0	5.1	5.0	5.2	6.1
Other debt.....	.5	1.7	1.4	1.8	1.7	2.2	4.2	5.0	4.4
Short-term sources.....	19.2	15.1	2.6	16.5	7.4	10.8	12.8	14.8	11.1
Bank loans.....	2.1	3.7	-4	5.4	1.3	.4	3.0	4.3	2.6
Trade payables.....	8.8	5.5	3.8	5.3	4.5	7.4	5.6	6.8	5.8
Federal income tax liabilities.....	7.3	3.8	-2.5	2.1	-1.6	.7	.9	1.2	.7
Other.....	1.0	2.1	1.7	3.7	3.2	2.3	3.2	2.5	2.0
Discrepancy (uses less sources).....	1.1	.3	-4.2	-5.0	-2.4	-3.5	-4.9	-4.1	-5.4

¹ Includes depletion. Does not reflect revisions in depreciation accounting introduced in 1962.

Source: Dept. of Commerce, Office of Business Economics; *Survey of Current Business*, July 1962, November 1964, and May 1965, *U.S. Income and Output*, and unpublished data.

No. 694. NET CHANGE IN BUSINESS INVENTORIES: 1940 TO 1964

[In millions of dollars. Beginning 1960, includes Alaska and Hawaii. Net change in business inventories measures change in physical inventories, valued at average prices current during year. Difference between change in business inventories as thus measured and change in book value of inventories constitutes inventory valuation adjustment]

ITEM	1940	1945	1950	1955	1960	1962	1963	1964 (prel.)
Net change in business inventories	2,172	-1,057	6,815	5,783	3,488	5,863	4,443	3,700
Farm.....	270	-462	815	297	329	596	497	100
Nonfarm.....	1,902	-595	6,000	5,486	3,159	5,267	3,946	3,600
Net change in nonfarm inventories	1,902	-595	6,000	5,486	3,159	5,267	3,946	3,600
Corporate.....	1,586	-1,027	4,823	4,927	2,692	4,663	3,255	(NA)
Noncorporate.....	316	432	1,177	559	467	604	691	(NA)
Change in book value	2,147	75	12,059	7,420	2,986	4,998	4,421	(NA)
Corporate.....	1,786	-463	9,788	6,663	2,500	4,411	3,695	(NA)
Noncorporate.....	361	538	2,271	757	486	587	726	(NA)
Inventory valuation adjustment	-245	-670	-6,059	-1,934	173	269	-475	(NA)
Corporate.....	-200	-564	-4,965	-1,736	192	252	-440	-200
Noncorporate.....	-45	-106	-1,094	-198	-19	17	-35	(NA)
Net change in nonfarm inventories by industrial groups	1,902	-595	6,000	5,486	3,159	5,267	3,946	3,600
Manufacturing.....	1,218	-1,556	2,164	2,626	1,389	2,791	1,842	(NA)
Change in book value.....	1,357	-1,121	5,496	4,008	1,057	2,643	2,319	2,600
Inventory valuation adjustment.....	-139	-435	-3,332	-1,382	332	148	-477	(NA)
Wholesale trade	183	560	1,356	1,115	-40	425	1,120	(NA)
Change in book value.....	173	665	2,458	1,195	99	363	1,068	800
Inventory valuation adjustment.....	10	-105	-1,102	-80	-139	62	22	(NA)
Retail trade	482	272	2,131	2,092	1,375	1,679	732	(NA)
Change in book value.....	563	358	3,351	2,294	1,518	1,657	755	200
Inventory valuation adjustment.....	-81	-86	-1,220	-202	-143	22	-23	(NA)
All other	19	120	349	-347	435	372	252	(NA)
Change in book value.....	54	173	754	-77	312	335	249	(NA)
Inventory valuation adjustment.....	-35	-44	-405	-270	123	37	3	(NA)

NA Not available.

Source: Dept. of Commerce, Office of Business Economics; *Survey of Current Business*, July 1964, *National Income Supplement*, 1964, and unpublished data.

No. 695. MERGERS AND ACQUISITIONS—MANUFACTURING AND MINING CONCERNS
ACQUIRED: 1920 TO 1964

[Includes Alaska and Hawaii. Data limited to actions reported by Moody's Investors Service and Standard and Poor's Corporation. Many smaller acquisitions are not reported in these sources. Includes partial acquisitions when they comprise whole divisions of other companies. See also *Historical Statistics, Colonial Times to 1957*, series V 30]

PERIOD	Number	YEAR	Number	YEAR	Number	YEAR	Number
1920-1924.....	2,235	1940.....	140	1949.....	126	1957.....	585
1925-1929.....	4,583	1941.....	111	1950.....	219	1958.....	589
1930-1934.....	1,637	1942.....	118	1951.....	235	1959.....	835
1935-1939.....	577	1943.....	213	1952.....	288	1960.....	844
1940-1944.....	906	1944.....	324	1953.....	295	1961.....	954
1945-1949.....	1,505	1945.....	333	1954.....	337	1962.....	853
1950-1954.....	1,424	1946.....	410	1955.....	683	1963.....	861
1955-1959.....	3,365	1947.....	404	1956.....	673	1964.....	854
1960-1964.....	4,366	1948.....	223				

Source: Federal Trade Commission; *Report on Corporate Mergers and Acquisitions*, 1955, and unpublished data.

No. 696. MERGERS AND ACQUISITIONS—MANUFACTURING AND MINING CONCERNS ACQUIRED, BY INDUSTRY GROUP OF ACQUIRING CONCERN: 1948 TO 1964

[See headnote, table 695]

INDUSTRY GROUP OF ACQUIRING CONCERN	1948-1955, total	1956	1957	1958	1959	1960	1961	1962	1963	1964
Total	2,456	673	585	589	835	844	954	853	861	854
Mining.....	144	53	37	53	44	33	50	32	55	39
Manufacturing.....	2,166	569	506	503	734	742	780	744	716	712
Food and kindred products.....	313	61	40	51	69	61	73	56	67	69
Tobacco manufactures.....	10	3	4	2	3	2	5	5	6	6
Textiles and apparel.....	154	47	26	23	46	53	51	59	82	55
Lumber and furniture.....	55	14	7	9	24	32	15	21	29	12
Paper and allied products.....	86	27	32	32	39	52	28	23	16	14
Printing and publishing.....	36	8	7	14	23	26	46	31	31	24
Chemicals.....	216	55	46	58	76	68	86	108	78	103
Petroleum and coal products.....	49	16	10	11	20	10	10	25	14	19
Rubber products.....	31	8	12	4	5	14	18	15	14	13
Leather products.....	28	8	1	2	5	1	7	9	6	9
Stone, clay, and glass products.....	87	18	10	21	40	27	24	22	15	15
Primary metals.....	111	36	34	29	36	29	34	36	35	39
Fabricated metals.....	196	41	41	39	53	45	57	32	46	45
Machinery, except electrical.....	346	91	79	71	91	77	87	73	88	72
Electrical machinery.....	177	50	62	59	82	113	122	113	109	116
Transportation equipment.....	174	49	41	40	65	67	47	56	46	56
Professional and scientific instruments.....	61	27	23	20	37	35	50	42	28	34
Miscellaneous manufactures.....	36	13	22	9	20	30	20	18	26	11
Nonmanufacturing.....	146	51	42	33	57	69	124	77	90	103

Source: Federal Trade Commission; *Report on Corporate Mergers and Acquisitions*, 1955, and unpublished data.

No. 697. MERGERS AND ACQUISITIONS—MANUFACTURING AND MINING CONCERNS ACQUIRED, BY SIZE OF ASSETS OF ACQUIRING CONCERN: 1948 TO 1964

[See headnote, table 696]

ASSETS OF ACQUIRING CONCERN	1948-1961		1962		1963		1964	
	Number acquired	Per cent	Number acquired	Per cent	Number acquired	Per cent	Number acquired	Per cent
Total	7,780	100.0	853	100.0	861	100.0	854	100.0
Under \$1,000,000.....	73	0.9	12	1.4	12	1.4	7	0.8
\$1,000,000 to \$4,999,999.....	1,012	13.0	146	17.1	120	14.0	101	11.8
\$5,000,000 to \$9,999,999.....	994	12.8	130	15.2	101	11.7	99	11.6
\$10,000,000 to \$49,999,999.....	2,542	32.7	244	28.6	287	33.3	283	33.2
\$50,000,000 and over.....	2,431	31.2	237	27.8	202	23.9	280	32.8
Assets unknown.....	728	9.4	84	9.9	49	5.7	84	9.8

Source: Federal Trade Commission; *Report on Corporate Mergers and Acquisitions*, 1955, and unpublished data.

No. 698. ACQUISITIONS BY 500 LARGEST INDUSTRIAL AND 50 LARGEST MERCHANDISING FIRMS—DISTRIBUTION, BY SIZE GROUPS RANKED BY SALES SIZE: 1951-61

INDUSTRIAL FIRMS				MERCHANDISING FIRMS			
Groups of 50		Groups of 100		Groups of 10		Groups of 20	
Rank	Number	Rank	Number	Rank	Number	Rank	Number
Total	3,404	Total	3,404	Total	332	Total	332
Largest 50.....	471	Largest 100.....	884	Largest 10.....	85	Largest 20.....	162
Next 50.....	413			Next 10.....	77		
Next 50.....	746	Next 100.....	1,059	Next 10.....	87	Next 20.....	119
Next 50.....	313			Next 10.....	32		
Next 50.....	320	Next 100.....	577	Next 10.....	51	(X)	(X)
Next 50.....	267						
Next 50.....	250	Next 100.....	453				
Next 50.....	203						
Next 50.....	237	Next 100.....	431				
Next 50.....	194						

X Not applicable.

Source: U.S. Congress, House, Select Committee on Small Business; *Mergers and Superconcentration Acquisitions of 500 Largest Industrial and 50 Largest Merchandising Firms*, November 8, 1962. (87th Congress.)

No. 699. INDUSTRIAL AND COMMERCIAL FAILURES—NUMBER AND LIABILITIES: 1921 TO 1964

[Excludes Alaska and Hawaii. Excludes all railroad failures. Series revised beginning 1933 to exclude real estate and financial companies. These revisions bring "Failures" more nearly in accordance with type of concerns covered by "Total concerns in business," in which no changes were made. Beginning 1939, new series includes voluntary discontinuances with loss to creditors and small concerns forced out of business with insufficient assets to cover all claims, in addition to failures included in former series. See also *Historical Statistics, Colonial Times to 1937*, series V 1-3]

YEARLY AVERAGE OR YEAR	Total concerns in business ¹ (1,000)	FAILURES ²				YEAR OR MONTH	Total concerns in business ¹ (1,000)	FAILURES ²			
		Number	Rate per 10,000 concerns	Current liabilities ³ (\$1,000)	Average liability			Number	Rate per 10,000 concerns ⁴	Current liabilities ³ (\$1,000)	Average liability
1921-1925.....	2,013	20,775	103	555,531	\$26,740	1955.....	2,633	10,969	42	449,380	\$40,968
1926-1930.....	2,185	23,005	108	614,086	21,779	1956.....	2,629	12,088	48	562,697	44,356
1931-1935.....	2,024	20,860	102	553,336	20,520	1957.....	2,652	13,739	52	615,293	44,784
1936-1940.....	2,088	12,064	58	196,427	10,282	1958.....	2,675	14,964	56	728,258	48,667
1941-1945.....	2,022	8,301	26	68,552	12,888	1959.....	2,708	14,093	57	692,808	49,300
1946-1950.....	2,493	5,652	21	212,595	44,733	1960.....	2,708	15,445	57	938,680	60,772
1951-1955.....	2,635	9,317	35	369,804	30,322	1961.....	2,641	17,076	64	1,090,123	63,843
1956-1960.....	2,674	14,177	53	707,537	49,570	1962.....	2,589	16,782	61	1,213,601	70,898
						1963.....	2,544	14,374	56	1,352,593	94,100
1942.....	2,152	9,405	45	100,763	10,713						
1943.....	2,023	3,221	16	45,339	14,076	1964.....	2,524	13,501	53	1,329,223	98,454
1944.....	1,855	1,222	7	31,660	25,908	Jan.....	2,543	1,217	54	86,731	79,483
						Feb.....	(NA)	1,241	55	123,935	99,807
1945.....	1,909	809	4	30,225	37,361	Mar.....	2,544	1,320	57	110,999	84,090
1946.....	2,142	1,129	5	67,949	59,654	Apr.....	(NA)	1,197	51	112,884	94,306
1947.....	2,405	3,474	14	204,612	58,898	May.....	2,531	1,076	49	93,419	80,901
1948.....	2,550	5,250	20	234,620	44,690	June.....	(NA)	1,157	53	144,496	124,889
1949.....	2,679	9,246	34	308,109	33,323						
						July.....	2,524	1,096	55	125,642	114,637
1950.....	2,687	9,162	34	248,283	27,099	Aug.....	(NA)	1,189	59	95,180	81,420
1951.....	2,608	8,058	31	259,547	32,210	Sept.....	2,523	1,034	50	114,565	110,798
1952.....	2,637	7,611	29	283,514	37,224	Oct.....	(NA)	1,080	51	93,760	88,458
1953.....	2,667	8,862	33	394,153	44,477	Nov.....	2,526	967	50	119,324	123,890
1954.....	2,632	11,086	42	402,628	41,731	Dec.....	(NA)	998	48	98,282	101,531

NA Not available.

¹ Annual data represent number of names listed in July issue of *Dun & Bradstreet Reference Book*; monthly data are listings in edition published in specified month. See table 701 for class of industries covered.

² Includes concerns discontinuing following assignment, voluntary or involuntary petition in bankruptcy, attachment, execution, foreclosure, etc.; voluntary withdrawals from business with known loss to creditors; also enterprises involved in court action, such as receivership, and, since June 1934, reorganization with arrangement which may or may not lead to discontinuance; and businesses making voluntary compromise with creditors out of court.

³ Liabilities exclude long-term publicly held obligations; offsetting assets are not taken into account.

⁴ Monthly data represent annual rate at which business concerns would fail if number of concerns and failures listed in that month prevailed for entire year. Adjustments have been made for seasonal fluctuations.

Source: Dun & Bradstreet, Inc., New York, N.Y.; *The Failure Record Through 1963*, and unpublished data.

No. 700. INDUSTRIAL AND COMMERCIAL FAILURES—PERCENT DISTRIBUTION, BY MAJOR INDUSTRY GROUP AND YEARS IN BUSINESS: 1954 TO 1964

[Excludes Alaska and Hawaii]

YEARS IN BUSINESS	ALL CONCERNS		MINING AND MANUFACTURING		WHOLESALE		RETAIL		CONSTRUCTION		COMMERCIAL SERVICE	
	Annual avg., 1954-1963	1964	Annual avg., 1954-1963	1964	Annual avg., 1954-1963	1964	Annual avg., 1954-1963	1964	Annual avg., 1954-1963	1964	Annual avg., 1954-1963	1964
Number of failures.....	14,017	13,501	2,474	2,264	1,389	1,392	6,836	6,241	2,134	2,388	1,184	1,226
Total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
First year.....	3.7	2.6	3.0	2.3	2.8	1.6	4.6	3.5	1.9	1.3	3.4	2.8
Second year.....	17.4	15.8	15.0	13.6	12.7	10.3	21.2	20.0	11.6	11.0	16.8	14.3
Third year.....	16.4	16.5	14.7	14.4	13.9	13.1	17.9	18.6	15.1	14.5	16.9	17.2
Fourth year.....	11.4	12.2	10.7	12.1	10.5	13.4	11.5	12.1	12.7	11.3	11.9	13.0
Fifth year.....	8.2	8.9	7.6	8.4	8.0	8.5	7.9	8.6	10.1	10.9	8.5	8.9
Sixth year.....	6.4	7.0	6.1	7.4	6.5	6.5	5.8	6.4	8.4	7.5	6.6	8.4
Seventh year.....	5.1	4.5	4.9	4.1	5.3	4.8	4.7	4.1	6.1	6.1	5.2	4.8
Eighth year.....	4.3	4.0	4.4	3.9	4.7	4.4	3.9	3.6	5.3	4.8	4.3	4.7
Ninth year.....	3.8	3.1	4.0	3.2	4.1	4.1	3.4	2.4	4.8	3.9	4.0	3.3
Tenth year.....	3.3	2.9	3.7	3.1	3.8	3.1	2.8	2.3	4.0	3.8	3.4	3.0
Over 10 years.....	20.0	22.5	25.9	27.5	27.7	30.2	16.3	18.5	20.0	24.9	18.9	19.6

Source: Dun & Bradstreet, Inc., New York, N.Y.; *The Failure Record Through 1963*, and unpublished data.

No. 701. INDUSTRIAL AND COMMERCIAL FAILURES—NUMBER AND LIABILITIES, BY INDUSTRY AND SIZE OF LIABILITY: 1955 to 1964

[Liabilities in thousands of dollars. Excludes Alaska and Hawaii. See footnotes 2 and 3, table 699]

INDUSTRY AND SIZE OF LIABILITY	FAILURES				CURRENT LIABILITIES			
	1955	1960	1963	1964	1955	1960	1963	1964
Total	10,969	15,445	14,374	13,501	449,380	938,630	1,352,593	1,329,223
Mining and manufacturing	2,262	2,612	2,409	2,254	156,945	289,635	557,699	361,864
By industry:								
Mining—coal, oil, misc.....	55	98	84	70	5,166	19,650	18,269	30,030
Food and kindred products.....	165	173	179	154	14,198	31,276	209,887	46,712
Textile-mill products and apparel.....	506	435	348	375	25,334	36,374	50,141	41,470
Lumber and products.....	336	520	353	323	13,658	38,292	32,104	20,426
Paper, printing, and publishing.....	114	200	220	200	6,760	12,084	23,766	18,076
Chemicals and allied products.....	49	63	79	88	3,464	5,662	20,004	11,969
Leather and products.....	80	82	65	68	4,358	12,786	14,587	10,327
Stone, clay, and glass products.....	49	44	57	51	1,821	4,000	9,487	4,261
Iron, steel, and products.....	120	187	138	143	14,219	27,046	35,974	39,526
Machinery.....	291	289	385	326	37,278	44,682	68,418	71,300
Transportation equipment.....	47	133	86	85	5,327	16,854	33,072	17,372
Miscellaneous.....	390	408	415	371	25,382	40,929	42,100	41,389
By size of liability:								
Under \$25,000.....	1,093	1,071	785	750	12,182	11,798	9,055	8,872
\$25,000 to \$100,000.....	764	941	880	838	36,288	46,364	43,737	43,129
\$100,000 and over.....	345	600	744	606	108,475	231,473	504,907	309,863
Wholesale trade	1,164	1,473	1,510	1,392	57,682	107,156	175,071	240,492
By industry:								
Food and farm products.....	274	321	278	257	12,635	29,318	21,931	125,170
Apparel.....	62	46	37	37	2,176	3,512	4,615	2,602
Dry goods.....	54	35	34	49	4,107	1,403	3,848	6,051
Lumber, bldg. materials, hardware.....	135	184	193	155	7,014	14,040	27,401	25,301
Chemicals and drugs.....	36	45	46	51	1,187	1,626	4,122	3,369
Motor vehicles and auto equipment.....	68	116	102	127	2,020	7,404	5,594	7,646
Miscellaneous.....	535	726	820	716	28,643	49,852	107,560	69,754
By size of liability:								
Under \$25,000.....	632	654	571	485	7,385	7,867	6,408	5,583
\$25,000 to \$100,000.....	412	577	618	558	19,690	27,889	29,922	27,255
\$100,000 and over.....	120	242	321	349	30,607	71,400	138,741	207,654
Retail trade	5,339	7,386	6,681	6,241	121,619	241,094	299,365	281,948
By industry:								
Food and liquor.....	1,053	1,059	851	813	10,556	28,557	34,578	32,228
General merchandise.....	193	255	261	225	5,193	12,844	34,507	24,209
Apparel and accessories.....	865	978	889	718	17,774	25,753	39,454	30,148
Furniture, home furnishings.....	719	968	678	722	21,072	38,782	37,862	38,716
Lumber, bldg. materials, hardware.....	324	487	439	416	10,367	20,063	21,388	22,377
Automotive group.....	544	1,338	1,230	1,232	12,915	49,944	36,743	48,185
Eating and drinking places.....	956	1,426	1,383	1,294	20,330	41,580	55,760	51,173
Drug stores.....	128	166	210	181	2,574	5,817	7,057	6,762
Miscellaneous.....	557	709	760	640	11,838	17,745	32,026	28,150
By size of liability:								
Under \$25,000.....	4,057	4,838	3,892	3,460	38,351	50,719	43,673	39,408
\$25,000 to \$100,000.....	1,101	2,164	2,271	2,262	48,197	94,846	102,932	103,536
\$100,000 and over.....	181	384	518	519	35,071	95,529	152,760	139,004
Construction	1,404	2,697	2,401	2,388	83,179	201,369	231,354	262,392
By industry:								
General building contractors.....	443	1,020	888	970	39,827	110,656	140,630	171,645
Building subcontractors.....	880	1,419	1,357	1,275	34,485	74,177	66,680	74,792
Other contractors.....	81	168	156	143	8,867	16,536	24,044	15,985
By size of liability:								
Under \$25,000.....	777	1,180	1,040	938	8,737	13,296	12,069	11,029
\$25,000 to \$100,000.....	462	991	934	971	21,779	48,040	45,487	48,391
\$100,000 and over.....	165	436	427	479	52,663	140,033	173,798	202,972
Commercial service	860	1,367	1,373	1,226	29,955	99,376	89,104	182,527
By industry:								
Passenger and freight transportation.....	255	410	326	286	11,870	38,356	21,982	23,324
Miscellaneous public services.....	30	62	83	62	4,028	3,874	6,006	14,407
Hotels.....	41	82	81	96	5,901	23,271	28,465	46,158
Cleaning, dyeing, repairing.....	95	122	142	92	1,229	3,381	5,802	3,066
Laundries.....	50	68	76	85	1,344	2,450	3,473	12,495
Undertakers.....	8	7	9	11	401	172	251	1,073
Other personal services.....	61	81	103	98	536	3,583	2,564	2,526
Business and repair services.....	320	535	553	495	4,646	24,280	19,871	79,388
By size of liability:								
Under \$25,000.....	638	829	789	656	5,706	8,561	8,850	7,612
\$25,000 to \$100,000.....	177	405	412	392	8,049	17,823	18,825	18,780
\$100,000 and over.....	45	133	172	178	16,200	72,992	61,429	156,185

Source: Dun & Bradstreet, Inc., New York, N.Y.; *The Failure Record Through 1963*, and unpublished data.

NO. 702. INDUSTRIAL AND COMMERCIAL FAILURES—NUMBER AND LIABILITIES, BY STATES: 1960 TO 1964

STATE	TOTAL CONCERNS IN BUSINESS ¹			FAILURES ²					Current liabilities (\$1,000)		
				Number			As per- cent of con- cerns in busi- ness, 1964				
	1960	1963	1964	1960	1963	1964		1960	1963	1964	
United States ¹	2,707,519	2,544,058	2,524,423	15,445	14,374	13,501	0.53	938,630	1,352,593	1,329,223	
New England.....	175,369	159,550	157,768	717	666	793	0.50	56,688	119,193	77,268	
Maine.....	15,523	13,718	13,771	39	29	56	0.41	3,875	8,986	3,680	
New Hampshire.....	10,213	9,164	9,690	33	23	47	0.40	2,424	2,773	9,764	
Vermont.....	6,602	6,270	6,435	14	4	18	0.28	1,223	9,451	1,169	
Massachusetts.....	88,527	79,679	77,703	295	323	418	0.54	28,887	49,250	46,982	
Rhode Island.....	15,903	16,573	16,377	103	128	95	0.62	5,730	34,856	4,603	
Connecticut.....	38,511	35,146	34,787	233	159	161	0.43	14,549	13,847	11,101	
Middle Atlantic.....	529,082	520,326	508,514	4,609	3,760	3,465	0.68	276,280	529,745	502,345	
New York.....	253,471	251,498	244,801	3,093	2,461	2,328	0.95	191,549	216,215	390,231	
New Jersey.....	99,181	97,089	96,290	714	509	442	0.46	49,071	256,075	49,261	
Pennsylvania.....	176,430	171,139	167,423	802	790	695	0.42	35,663	57,455	56,853	
East North Central.....	526,957	495,132	487,134	2,683	2,798	2,362	0.48	146,212	204,191	189,525	
Ohio.....	132,646	130,312	127,931	836	1,002	910	0.71	38,603	54,765	57,428	
Indiana.....	66,344	62,966	62,778	151	157	118	0.19	9,686	9,604	9,127	
Illinois.....	162,962	143,225	138,789	836	963	738	0.53	47,367	76,045	70,757	
Michigan.....	104,091	97,071	95,429	524	371	285	0.30	37,687	47,292	30,041	
Wisconsin.....	70,914	61,568	62,207	336	305	311	0.50	12,869	16,585	22,172	
West North Central.....	256,327	243,287	243,529	492	559	485	0.20	29,204	38,895	39,422	
Minnesota.....	54,680	48,843	50,913	101	181	188	0.37	5,050	13,165	15,217	
Iowa.....	51,272	47,147	48,546	92	116	81	0.17	4,393	6,853	5,000	
Missouri.....	70,700	61,344	60,582	132	119	111	0.18	7,489	10,861	12,301	
North Dakota.....	10,654	9,911	10,297	13	4	5	0.05	1,496	380	1,778	
South Dakota.....	12,268	11,649	11,850	5	10	12	0.10	179	367	610	
Nebraska.....	27,802	27,333	26,719	32	50	33	0.12	2,366	2,258	1,319	
Kansas.....	38,953	37,060	36,622	117	79	55	0.15	8,231	5,001	3,297	
South Atlantic.....	363,439	324,175	326,172	1,695	1,772	1,594	0.49	78,940	113,281	97,999	
Delaware.....	6,257	6,134	5,960	18	10	5	0.08	1,532	420	1,131	
Maryland.....	36,553	34,641	35,400	160	186	199	0.56	7,043	9,702	14,373	
Dist. of Columbia.....	9,484	10,014	10,105	30	31	13	0.13	2,161	8,173	671	
Virginia.....	49,170	44,303	44,601	143	138	129	0.29	10,681	12,192	6,018	
West Virginia.....	26,094	23,204	22,781	85	96	87	0.38	4,051	5,792	3,692	
North Carolina.....	65,137	58,451	56,596	152	129	101	0.17	4,874	7,769	5,846	
South Carolina.....	26,165	27,640	27,960	162	114	101	0.39	2,349	3,709	2,320	
Georgia.....	55,019	47,118	47,198	227	337	356	0.75	11,813	19,074	26,121	
Florida.....	86,557	72,672	72,571	718	732	603	0.83	34,436	46,460	37,527	
East South Central.....	150,966	147,359	147,876	496	395	358	0.28	33,016	22,147	48,745	
Kentucky.....	41,501	38,089	38,806	86	43	61	0.16	11,593	2,494	4,165	
Tennessee.....	45,272	44,077	44,914	172	210	149	0.33	10,850	10,419	23,601	
Alabama.....	37,253	36,226	36,603	85	98	120	0.33	4,149	5,788	14,020	
Mississippi.....	26,940	27,467	27,553	63	44	58	0.21	6,424	3,496	6,060	
West South Central.....	283,784	261,349	261,717	888	903	1,004	0.38	77,942	76,882	95,266	
Arkansas.....	28,446	27,070	27,224	76	48	62	0.28	5,231	8,742	4,148	
Louisiana.....	47,887	44,565	45,066	180	194	147	0.33	9,725	14,908	12,418	
Oklahoma.....	42,333	39,211	39,464	105	111	101	0.26	8,078	5,714	5,182	
Texas.....	165,718	150,503	149,063	517	610	694	0.40	54,908	52,518	73,518	
Mountain.....	118,081	113,873	114,714	452	648	736	0.64	26,020	42,701	56,244	
Montana.....	12,882	11,598	11,726	17	24	17	0.14	555	922	1,177	
Idaho.....	10,879	10,439	10,210	40	63	66	0.65	1,987	3,134	2,740	
Wyoming.....	6,735	6,631	6,784	5	12	14	0.21	630	714	522	
Colorado.....	34,072	32,258	33,150	110	120	84	0.25	6,348	6,959	9,918	
New Mexico.....	16,693	16,217	16,159	43	32	79	0.49	2,222	2,355	6,648	
Arizona.....	18,277	19,621	19,280	183	227	265	1.37	11,662	17,085	22,764	
Utah.....	12,832	12,403	12,422	37	154	173	1.39	1,623	9,040	7,035	
Nevada.....	4,711	4,706	4,977	17	16	38	0.76	993	2,492	5,431	
Pacific.....	295,514	279,007	278,999	3,593	2,873	2,674	0.97	214,328	295,558	223,008	
Washington.....	42,082	40,532	41,549	428	429	360	0.86	15,534	19,698	14,725	
Oregon.....	25,433	27,110	27,363	241	218	255	0.93	13,407	13,322	11,260	
California.....	224,999	211,365	207,987	2,534	2,226	2,059	0.99	185,387	172,538	197,023	

¹ Represents number of names listed in July issue of *Dun & Bradstreet Reference Book*. See table 701 for class of industries covered. ² See footnotes 2 and 3, table 699.

³ Excludes Alaska and Hawaii.

Source: Dun & Bradstreet, Inc., New York, N.Y.; *The Failure Record Through 1963*, and unpublished data.

NO. 703. INDUSTRIAL AND COMMERCIAL FAILURES—PERCENT DISTRIBUTION, BY NUMBER OF YEARS IN BUSINESS: 1945 TO 1964
[Excludes Alaska and Hawaii]

YEAR	Total failures	5 years or less	6 to 10 years	Over 10 years	YEAR	Total failures	5 years or less	6 to 10 years	Over 10 years
1945-----	100.0	59.1	19.8	21.1	1958-----	100.0	57.2	21.4	21.4
1950-----	100.0	68.2	19.0	12.8	1959-----	100.0	57.1	22.3	20.6
					1960-----	100.0	58.6	20.8	20.6
1953-----	100.0	68.5	26.7	14.8					
1954-----	100.0	67.2	27.3	15.5	1961-----	100.0	56.2	22.4	21.4
1955-----	100.0	66.6	26.0	17.4	1962-----	100.0	55.4	22.2	22.4
1956-----	100.0	68.6	28.1	18.3	1963-----	100.0	55.4	21.7	22.9
1957-----	100.0	68.9	21.8	19.3	1964-----	100.0	56.0	21.5	22.5

Source: Dun & Bradstreet, Inc., New York, N.Y.; *The Failure Record Through 1963*, and unpublished data.

NO. 704. BANKRUPTCY CASES FILED AND PENDING: 1905 TO 1964

[For years ending June 30. Covers all U.S. District Courts. A bankruptcy case is a proceeding filed in a U.S. District Court under the National Bankruptcy Act. "Filed" means the commencement of a proceeding through the presentation of a petition to the clerk of the court; "Pending" is a proceeding in which the administration has not been completed]

YEAR	Filed	Pending	YEAR	Filed	Pending	YEAR	Filed	Pending
1905-----	16,946	27,957	1947-----	13,170	17,296	1956-----	82,086	59,364
1910-----	18,063	25,302	1948-----	18,510	25,064	1957-----	73,761	68,469
1915-----	27,632	43,615	1949-----	26,021	30,566	1958-----	91,668	80,446
1920-----	13,558	29,728	1950-----	33,392	38,376	1959-----	100,672	84,273
1925-----	45,041	59,959	1951-----	35,193	40,922	1960-----	110,034	94,990
1930-----	62,845	61,410	1952-----	34,873	36,184	1961-----	146,643	123,690
1935-----	60,153	65,347	1953-----	40,087	38,786	1962-----	147,780	133,761
1940-----	52,320	54,740	1954-----	53,136	48,428	1963-----	165,493	147,814
1945-----	12,862	21,461	1955-----	59,404	55,592	1964-----	171,719	157,177

Source: Administrative Office of the United States Courts; *Tables of Bankruptcy Statistics*, 1940 to date; earlier years, annual reports of the Attorney General of the United States.

NO. 705. BANKRUPTCY CASES FILED, BY TYPE OF BANKRUPTCY AND OCCUPATION OF DEBTOR: 1940 TO 1964

[For years ending June 30. Covers all U.S. District Courts. The majority of cases filed are voluntary straight bankruptcy petitions filed by employees and individuals not engaged in business]

ITEM	1940	1950	1955	1958	1959	1960	1961	1962	1963	1964
Total -----	52,320	33,392	59,404	91,668	100,672	110,034	146,643	147,780	155,493	171,719
TYPE										
Straight bankruptcies-----	45,654	26,632	48,899	77,465	86,790	95,710	125,830	123,881	129,814	143,167
Voluntary-----	43,902	26,263	47,650	76,048	85,502	94,414	124,386	122,499	128,405	141,828
Involuntary-----	1,752	1,369	1,249	1,417	1,288	1,296	1,444	1,382	1,409	1,339
Corporate reorganization ¹ -----	320	134	73	67	78	90	112	77	128	125
Arrangements ² -----	1,139	614	566	743	808	634	978	940	1,221	1,135
Wage earners' plans ³ -----	3,247	6,007	9,864	13,391	12,993	13,599	19,723	22,880	24,329	27,292
Other-----	1,960	5	2	2	3	1	-	2	1	-
OCCUPATION OF DEBTORS⁴										
Merchants-----	4,651	2,565	3,317	3,504	3,400	3,157	4,244	3,804	3,797	4,533
Manufacturers-----	921	803	750	758	634	624	790	579	680	660
Farmers-----	2,678	200	386	332	408	453	546	548	554	505
Employees-----	36,846	23,933	46,163	73,379	81,516	89,639	119,117	120,742	127,157	141,550
Members of professions-----	801	126	217	284	430	495	623	768	749	779
Other-----	6,423	6,675	8,571	13,411	14,284	15,666	21,323	19,957	21,137	22,282
In business-----	4,193	4,668	4,515	6,525	6,857	7,555	9,038	8,581	9,118	8,639
Not in business-----	2,230	2,107	4,056	6,886	7,427	8,111	12,285	11,376	12,019	13,643

- Entry represents zero.

¹ Includes petitions filed under Chapter X (Corporate Reorganization) of the National Bankruptcy Act.

² Includes petitions filed under Chapter XI (Arrangements) and Chapter XII (Real Estate Arrangements) of the National Bankruptcy Act.

³ Includes petitions filed under Chapter XIII (Wage Earners' Plans) of the National Bankruptcy Act.

⁴ Beginning 1962, excludes straight and corporate involuntary.

Source: Administrative Office of the United States Courts; *Tables of Bankruptcy Statistics*.

Section 18

Communications

This section presents statistics on usage, finances, and operations of the various communications media: Postal service, telephone, telegraph, radio, television, newspapers, and books. Data on the postal service are included in the *Annual Report of the Postmaster General*. Statistics on revenues, volume of mail, and distribution of expenditures by classes of mail and services are presented in the Post Office Department's annual *Cost Ascertainment Report*. Principal sources of wire, radio, and television data are the Federal Communications Commission's *Annual Report*, its annual *Statistics of Communications Common Carriers*, and its annual releases of financial data reported by radio and television stations and networks. Statistics on number and circulation of newspapers and periodicals and on sales of books and pamphlets are issued by the Bureau of the Census in reports of the Census of Manufactures. Annual data on number and circulation of daily and Sunday newspapers appear in Editor and Publisher's *International Yearbook Number*. Monthly data on new books and new editions of books are presented by R. R. Bowker Company in *Publishers' Weekly*.

Postal Service.—"Cost ascertainment" is the term used by the Post Office Department to describe its system for developing data on revenues, expenses, volume, and average hauls fairly attributable to each class of mail handled by the Postal Service (first, second, third, fourth, foreign, penalty, franked, free for the blind, and air mail) and similar data for each of its special services (special delivery, money order, insurance, collect-on-delivery, registry, certified, and postal savings).

Telephone and telegraph systems.—Statistical coverage of wire and radio communications has been concentrated in the Federal Communications Commission since its establishment in 1934. According to the Communications Act of 1934, as amended, the Commission has full jurisdiction only over carriers engaged in interstate or foreign communications service by means of their own facilities or those of another carrier under direct or indirect common control. The Commission requires all except the smallest of these carriers to file annual and monthly reports and requires the companies controlling any but the smallest to file annual reports. Full jurisdiction applies to practically all wire-telegraph, ocean-cable, and radiotelegraph carriers but not to a large number of telephone carriers which are engaged in interstate or foreign service only by connection with the facilities of another unaffiliated carrier. However, the gross operating revenues of the telephone carriers reporting annually to the Commission are estimated to cover over 90 percent of the revenues of all telephone carriers in the United States.

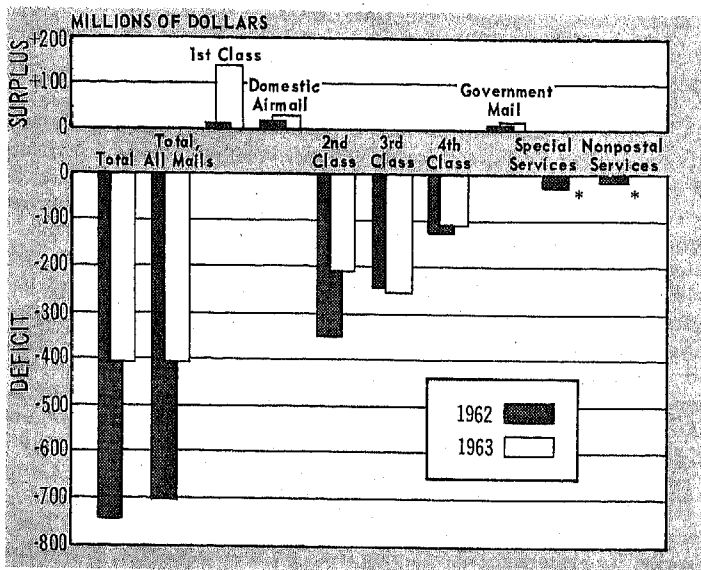
Broadcasting.—The number of broadcast stations refers to the number licensed or holding construction permits. Total broadcast revenues are defined as total time sales of all networks and stations, less commissions to agencies and plus incidental revenues, such as sale of talent, program material, etc. Reports filed with the Federal Communications Commission by broadcast stations and networks cover substantially all units operating in the United States and its outlying areas.

Alaska and Hawaii.—Statements specifying inclusion or exclusion of figures for Alaska and Hawaii appear in the headnotes to each table unless the inclusion or exclusion is self-evident. "Conterminous area" refers to the United States excluding Alaska, Hawaii, and outlying areas.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1957*. See preface.

FIG. XXXII. SURPLUS OR DEFICIT IN POSTAL REVENUES AND OBLIGATIONS:
1962 AND 1963

[See table 708]

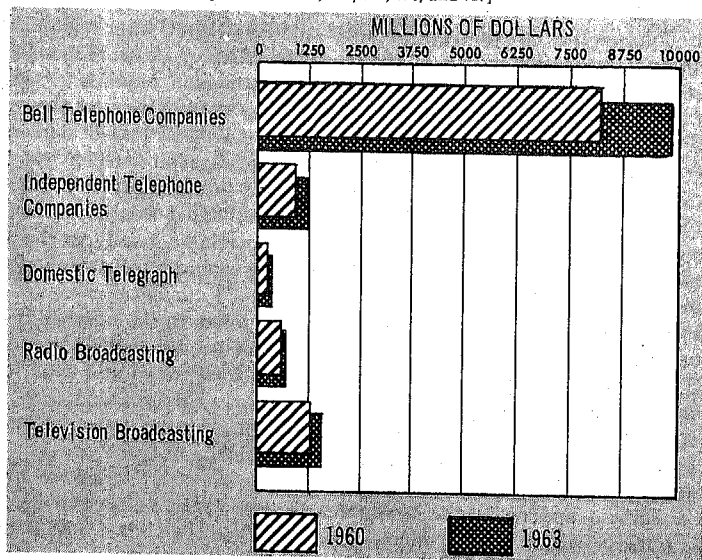


*Less than \$1 million.

Source: Chart prepared by Dept. of Commerce, Bureau of the Census. Data are from Post Office Dept.

FIG. XXXIII. OPERATING REVENUES OF SELECTED COMMUNICATIONS MEDIA: 1960 AND 1963

[See tables 715, 716, 721, 726, and 727]



¹ Includes estimates for nonreporting companies; see footnote 2, table 716.

Source: Chart prepared by Dept. of Commerce, Bureau of the Census. Data are from American Telephone & Telegraph Company, United States Independent Telephone Association, and Federal Communications Commission.

No. 706. UNITED STATES POSTAL SERVICE—SUMMARY: 1900 TO 1964

[For years ending June 30. Includes Alaska, Hawaii, Puerto Rico, and all outlying areas except Canal Zone; see table 711. See text, p. 509. See also *Historical Statistics, Colonial Times to 1957*, series R 139-141 and R 145]

YEAR	Number of post offices	FINANCES ¹			Revenue per capita	MONEY ORDERS ISSUED		Sales of postage stamps and other stamped paper	Postage paid under permit (1st, 2d, 3d, and 4th class)	Number of pieces of mail handled ²
		Revenues	Expenditures ²	Surplus (+) or deficit (-)		Domes- tic	Inter- national			
		<i>Mil. dol.</i>	<i>Mil. dol.</i>	<i>Mil. dol.</i>	<i>Dollars</i>	<i>Mil. dol.</i>	<i>Mil. dol.</i>	<i>Mil. dol.</i>	<i>Mil. dol.</i>	<i>Millions</i>
1900.....	76,688	102	108	-5	1.34	239	17	94	(*)	7,130
1905.....	68,131	103	107	-15	1.82	402	43	140	1	10,188
1910.....	59,580	224	230	-6	2.43	558	90	202	4	14,850
1915.....	56,380	287	209	-11	2.85	665	52	256	8	(NA)
1920.....	52,641	437	454	-17	4.11	1,342	23	380	13	(NA)
1925.....	50,957	900	639	-40	5.28	1,549	36	508	39	25,835
1930.....	49,063	705	804	-98	5.75	1,735	52	575	74	27,858
1935.....	45,686	631	697	-66	4.94	1,829	22	473	96	22,332
1940.....	44,024	707	808	-41	5.84	2,103	13	522	177	27,749
1945.....	41,792	1,314	1,145	+169	9.44	4,866	21	954	252	37,012
1950.....	41,464	1,677	2,223	-645	11.14	5,165	16	862	675	46,064
1955.....	38,316	2,349	2,712	-363	14.33	5,865	31	999	1,136	55,234
1958.....	36,308	2,550	3,441	-591	14.76	5,442	29	1,015	1,303	60,130
1959.....	35,750	3,035	3,640	-605	17.28	5,158	26	1,243	1,537	61,247
1960.....	35,238	3,277	3,874	-597	18.27	5,081	27	1,243	1,701	59,675
1961.....	34,955	3,423	4,249	-826	18.78	4,958	25	1,250	1,829	64,933
1962.....	34,797	3,557	4,332	-775	19.20	4,787	25	1,280	1,930	66,493
1963.....	34,498	3,879	4,609	-820	20.63	4,709	23	1,879	2,111	67,853
1964.....	34,040	4,276	4,928	-652	22.41	4,719	22	1,501	2,357	69,076

NA. Not available.

¹ After allowance for reimbursements, embossed envelope purchases, indemnity claims, and miscellaneous revenue and expenditure offsets. Revenues, expenditures, and deficits through 1950 on cash-disbursement basis, i.e., they include payments and receipts in a year applicable to prior years; beginning 1955, expenditures are shown in year in which obligation was incurred, and revenues in year which gave rise to the earnings, whether collected or accrued. During fiscal 1954, the Department began receiving reimbursement for penalty and franked mail, and discontinued payment of subsidies to airlines. Revenues include reimbursements from the Treasury General Fund for statutory public services as follows: 1960, \$37.4 million; 1961, \$49.0 million; 1962, \$62.7 million. These and other changes affect comparability of figures from year to year.

² Includes capital expenditures for plant and equipment and cost of materials and supplies, but no provision for depreciation. Also includes costs of certain services rendered to other agencies without reimbursement but excludes costs of certain services rendered to the Post Office Department by other agencies. Beginning 1955, amounts shown represent obligations incurred. Beginning 1963, amount represents accrued expense including depreciation on fixed assets, reimbursable work for others, and expenses paid by certain other agencies without reimbursement by the Dept.

³ Service not inaugurated. ⁴ Includes postal notes issued under act of Congress.

Source: Post Office Dept.; *Annual Report of the Postmaster General and Cost Ascertainment Report*.

No. 707. POSTAL SERVICE REVENUES, BY SOURCE: 1920 TO 1964

[In millions of dollars. For years ending June 30. Includes Alaska, Hawaii, Puerto Rico, and all outlying areas except Canal Zone; see table 711. See text, p. 509]

REVENUE SOURCE	1920	1930	1940	1945	1950	1955	1960	1963	1964
Total ¹	437	705	767	1,314	1,677	2,349	3,277	3,899	4,206
Ordinary postal revenue.....	424	686	732	1,247	1,608	2,266	3,189	3,741	4,141
Stamps, postal cards, etc.....	380	575	522	954	862	990	1,243	1,379	1,501
Second-class postage paid in money (pound rates) ²	25	29	23	25	40	64	86	105	118
Other postage paid in money under permit ³	13	74	177	252	678	1,136	1,701	2,111	2,357
Box rents.....	6	9	8	11	14	26	29	32	34
Miscellaneous.....	1	1	3	4	11	41	130	114	131
Money-order revenues.....	10	17	24	47	63	66	81	84	62
Postal Savings System income.....	2	2	11	21	8	18	7	4	3

¹ Net revenue after refunds of postage.

² Beginning 1950, includes fees; previously, fees included with miscellaneous.

³ Beginning 1955, includes controlled circulation publications.

⁴ Includes \$37.4 million appropriated to postal revenues for public services as provided by the Postal Policy Act of 1958.

Source: Post Office Dept.; *Annual Report of the Postmaster General*.

No. 708. POSTAL REVENUES AND ACCRUED COSTS, BY CLASS OF MAIL AND TYPE OF SERVICE: 1962 TO 1964

[In thousands of dollars. For years ending June 30. Includes Alaska, Hawaii, Puerto Rico, and all outlying areas except Canal Zone; see table 711. See also *Historical Statistics, Colonial Times to 1957*, series R 146-160]

MAIL AND SERVICE	1962			1963				Revenues, 1964
	Revenues ¹	Accrued costs	Excess of revenues (+) or obligations (-)	Revenues	Total accrued costs, including public services	Deduct public service losses and costs ²	Excess of revenues (+) or obligations (-)	
All operations.....	3,617,955	4,367,192	-749,237	3,879,128	4,698,528	412,885	-406,515	4,276,123
All mails and special services.....	3,572,414	4,300,801	-727,887	3,829,227	4,538,208	302,460	-406,515	4,230,121
Prepaid domestic mail.....	3,106,641	3,810,903	-704,262	3,340,455	4,012,018	264,755	-416,808	3,717,608
1st class.....	1,614,628	1,606,485	+9,143	1,824,335	1,600,660	-	+132,775	2,100,898
Domestic airmail.....	184,874	162,635	+21,939	200,038	171,687	-	+28,451	210,064
2d class.....	102,965	455,185	-352,220	97,993	453,682	145,048	-210,641	108,440
Controlled circulation publications.....	8,758	14,008	-5,250	10,182	16,379	-	-6,197	12,635
3d class.....	536,518	786,933	-250,415	563,292	873,623	58,225	-252,107	612,227
4th class (parcel post).....	659,198	786,657	-127,459	644,615	806,187	51,482	-110,090	659,214
Government mail.....	92,980	82,632	+10,348	104,669	88,774	312	+10,207	119,038
Penalty ³	88,939	77,647	+11,292	100,369	84,412	167	+16,124	114,315
Franked ⁴	4,041	4,985	-944	4,300	4,862	144	+88	4,723
Free for the blind.....	1,485	2,053	-568	-	2,155	2,155	-	-
International mail.....	121,390	127,869	-6,479	130,068	139,236	800	-8,368	138,590
Special services.....	241,396	273,251	-31,855	242,999	287,444	44,445	-	239,318
Registry (paid).....	38,001	39,823	-1,822	36,327	43,203	6,876	-	35,528
Certified mail.....	9,516	9,569	-54	9,916	10,930	1,015	-	10,766
Insurance.....	27,420	27,084	+336	28,249	31,361	3,113	-	28,748
Collect on delivery.....	13,781	24,241	-10,460	13,373	24,498	11,124	-	13,493
Special delivery.....	36,019	60,015	-14,596	36,034	53,217	18,183	-	34,601
Money orders.....	65,781	76,944	-11,163	63,880	75,688	11,809	-	62,155
Postal savings.....	4,445	3,458	+987	3,801	3,275	+527	-	3,168
Box rent service.....	31,302	25,245	+6,057	32,433	26,153	+7,279	-	34,199
Stamped envelope service.....	15,132	16,272	-1,140	19,986	20,119	132	-	16,760
Unassignable.....	8,522	3,593	+4,929	11,035	8,581	-	+2,454	10,207
Nonpostal services.....	45,541	66,891	-21,350	49,901	71,639	21,739	-	50,002
Allen address reporting.....	282	282	-	271	271	-	-	281
U.S. savings bonds and stamps.....	821	731	+90	812	752	+60	-	822
Migratory bird stamps.....	103	92	+11	77	82	5	-	105
Custodial service (public bldgs.).....	428	15,404	-14,976	452	15,815	15,363	-	389
Transportation of military mail.....	43,370	43,370	-	48,081	48,081	-	-	48,090
Miscellaneous items, other agencies.....	537	7,012	-6,475	208	6,638	6,430	-	318
Public service-direct cost.....	(⁵)	(⁵)	(⁵)	-	88,681	88,681	-	-

- Entry represents zero.

¹ Includes appropriated public service revenues. See footnote 1, table 706, for amounts.

² P.L. 87-793 amended Section 2303(a) of 39 V.S.C. to provide for treatment of losses on specified free and preferred rate mails and services as public service losses; amounts shown for classes of mail and services are the computed public service costs attributable to provisions of this law.

³ Includes special services, other departments, Government Printing Office mailings of *Congressional Record* and other documents sent at congressional request. ⁴ Includes registry (official).

⁵ The allocation of costs to public services was not applicable in 1962. For 1962, public service revenues were appropriated. See footnote 1.

Source: Post Office Dept.; *Cost Ascertainment Report*, and unpublished data.

No. 709. PIECES OF MAIL RECEIVED PER CAPITA: 1945 TO 1964

[For years ending June 30. Includes Alaska and Hawaii. Based on estimated total population as of January 1, including Armed Forces abroad]

TYPE OF MAIL	1945	1950	1955	1958	1959	1960	1961	1962	1963	1964
Major domestic mail.....	257	287	324	335	335	341	342	345	347	349
Letters (1st class and airmail).....	166	168	184	195	192	193	196	199	199	201
2d class.....	42	42	41	41	40	42	44	44	44	45
3d class.....	41	60	92	92	97	100	97	97	98	97
Parcels.....	8	8	7	7	6	6	5	5	6	6

Source: Post Office Dept.; *Annual Report of the Postmaster General and Cost Ascertainment Report*.

NO. 710. POSTAL SERVICE OBLIGATIONS, BY OBJECT: 1955 TO 1964

[In millions of dollars. For years ending June 30. Includes Alaska, Hawaii, Puerto Rico, and all outlying areas except Canal Zone; see table 711]

OBJECT	1955	1960	1961	1962	1963	1964
Total apportioned obligations¹	2,738	3,920	4,312	4,396	4,530	4,747
Post Office operations	2,266	3,170	3,515	3,599	3,829	4,033
Salaries and travel of postmasters and supervisors	249	378	425	437	453	478
Salaries and travel of clerks, etc.	826	1,239	1,388	1,415	1,522	1,606
City delivery service	535	814	² 917	942	1,028	1,093
Rural delivery service	195	253	273	276	296	252
Postal transportation service	180	101	103	102	107	112
All other	281	385	409	427	483	492
Transportation of mails	429	535	574	601	603	612
Railroad	297	341	352	358	355	351
Star route ³	49	70	78	83	77	81
Domestic water transportation	3	4	5	5	4	5
Highway post offices	4	6	6	6	6	6
Domestic airmail	34	49	56	63	67	74
Foreign airmail	27	44	50	67	74	74
Other foreign mail ⁴	16	21	21	19	20	21
Claims and miscellaneous	6	8	9	9	10	11
General administration and overhead apportioned	38	207	216	187	88	91

¹ Before allowance for reimbursements, embossed envelope purchases, indemnity claims, and miscellaneous revenue and expenditure offsets. Beginning 1963, represents appropriation obligations adjusted for public service costs and deferred leave payments.

² Excludes vehicle service drivers.

³ Includes short-haul truck route.

⁴ Includes terminal and transportation charges by foreign countries.

Source: Post Office Dept.; *Cost Ascertainment Report*.

NO. 711. POST OFFICES—STATES AND OTHER AREAS: 1960, 1963, AND 1964

[For years ending June 30. Represents independent post offices; excludes branches and stations]

STATE OR OTHER AREA	1960	1963	1964	STATE OR OTHER AREA	1960	1963	1964
Total	35,238	34,498	34,040	South Atlantic—Con.			
United States	35,118	34,380	33,922	South Carolina	435	430	425
New England	2,068	2,012	1,974	Georgia	714	705	700
Maine	590	575	568	Florida	514	499	494
New Hampshire	297	284	278	East South Central	3,575	3,488	3,421
Vermont	323	319	315	Kentucky	1,643	1,586	1,537
Massachusetts	519	508	491	Tennessee	651	641	637
Rhode Island	62	62	62	Alabama	738	729	722
Connecticut	268	264	260	Mississippi	543	532	525
Middle Atlantic	4,394	4,323	4,275	West South Central	3,797	3,747	3,707
New York	1,757	1,736	1,724	Arkansas	795	782	777
New Jersey	553	547	543	Louisiana	593	586	578
Pennsylvania	2,084	2,040	2,008	Oklahoma	718	708	695
East North Central	5,121	5,067	5,022	Texas	1,691	1,671	1,657
Ohio	1,169	1,146	1,132	Mountain	2,480	2,413	2,373
Indiana	823	813	807	Montana	439	427	417
Illinois	1,365	1,361	1,347	Idaho	321	309	301
Michigan	833	822	815	Wyoming	222	211	210
Wisconsin	831	825	821	Colorado	475	468	461
West North Central	5,525	5,441	5,385	New Mexico	404	394	388
Minnesota	943	935	924	Arizona	242	235	231
Iowa	1,026	1,018	1,009	Utah	266	263	260
Missouri	1,142	1,118	1,098	Nevada	111	106	105
North Dakota	540	535	530	Pacific	2,617	2,542	2,503
South Dakota	476	465	458	Washington	583	559	545
Nebraska	608	599	597	Oregon	431	409	400
Kansas	790	771	769	California	1,305	1,272	1,257
South Atlantic	5,541	5,347	5,262	Alaska	215	222	221
Delaware	61	60	60	Hawaii	83	80	80
Maryland	486	478	470	Other	120	118	118
Dist. of Columbia	1	1	1	Puerto Rico	105	103	102
Virginia	1,228	1,130	1,094	Virgin Islands	5	5	5
West Virginia	1,267	1,221	1,197	Other areas ¹	10	10	11
North Carolina	835	823	821				

¹ Comprises Canton Island, Guam, Samoa (Tutuila), and Wake, Caroline, Mariana, and Marshall Islands.

Source: Post Office Dept.; *Annual Report of the Postmaster General*.

No. 712. POST OFFICE MAIL, BY CLASSES: 1950 TO 1964

[For years ending June 30. Includes Alaska, Hawaii, Puerto Rico, and all outlying areas except Canal Zone; see table 711. See also *Historical Statistics, Colonial Times to 1957*, series R 145-160]

CLASS OF MAIL	1950	1955	1960	1961	1962	1963	1964
PIECES OF MAIL, estimated (Millions)							
All mail	45,064	55,234	63,675	64,933	66,493	67,853	69,676
Domestic	44,646	54,722	63,115	64,359	65,987	67,314	69,116
1st class	24,500	28,713	33,235	34,289	35,333	35,834	36,943
Airmail	863	1,467	1,356	1,453	1,545	1,545	1,505
2d class	6,265	6,740	7,534	7,966	8,090	8,227	8,559
3d class	10,343	15,050	17,910	17,509	17,837	18,407	18,598
4th class (parcel post)	11,170	1,136	1,016	978	1,024	1,076	1,066
Publications	(1)	85	125	153	165	196	250
Penalty	1,472	1,480	1,826	1,800	1,877	1,927	2,067
Franked	32	48	109	89	111	95	120
Free for blind	2	3	5	5	6	7	8
International	417	512	560	574	507	538	560
Regular mail ²	190	235	212	197	190	203	215
Parcel post	9	8	9	8	7	8	—
U.S.A. gift parcels	12	—	—	—	—	—	—
Publishers' 2d class	85	110	145	158	90	96	98
Airmail ³	121	157	193	209	218	231	237
Air parcel post	1	1	1	1	1	2	2
WEIGHT OF MAIL (Million pounds)							
All mail	11,521	10,844	11,689	11,342	11,680	11,868	12,202
Domestic	11,176	10,668	11,500	11,161	11,528	11,710	12,035
1st class	620	804	956	996	1,061	1,082	1,130
Airmail	53	85	103	112	122	128	137
2d class	2,287	2,582	2,883	2,900	2,908	2,910	3,031
3d class	1,646	892	1,277	1,280	1,396	1,527	1,601
4th class (parcel post)	7,370	6,035	5,879	5,436	5,573	5,563	5,623
Publications	(1)	44	63	68	73	83	96
Penalty	183	201	305	334	357	376	376
Franked	5	5	9	7	7	7	7
Free for blind	12	20	26	28	31	35	34
International	345	177	189	180	152	158	168
Regular mail ²	25	33	36	32	33	38	42
Parcel post	95	82	77	68	64	61	63
U.S.A. gift parcels	177	—	—	—	—	—	—
Publishers' 2d class	43	54	66	69	44	45	47
Airmail ³	4	6	7	8	9	10	12
Air parcel post	1	1	3	3	3	4	4

- Entry represents zero.

¹ Publications included with 3d and 4th class. ² Comprises letters, cards, and other articles.

Source: Post Office Dept.; *Cost Ascertainment Report*.

No. 713. POST OFFICE EMPLOYEES, BY TYPE: 1950 TO 1964

[As of June 30. Includes Alaska, Hawaii, Puerto Rico, and all outlying areas except Canal Zone; see table 711. Includes classified and war-service regular employees of all activities. See *Historical Statistics, Colonial Times to 1957*, series R 161, for total employees]

TYPE OF EMPLOYEE	1950	1955	1960	1961	1962	1963	1964
Total	500,578	511,613	562,868	582,447	588,477	587,161	585,313
Full time	363,774	366,001	408,987	423,739	435,196	437,130	440,750
Departmental (bureaus and offices)	1,775	1,530	1,481	1,521	1,626	1,665	1,687
Regional and other field units reporting to Headquarters ¹	—	2,569	6,491	6,814	6,309	6,075	5,933
Postmasters	41,464	38,316	35,165	34,866	34,639	34,335	33,869
Post Office supervisors and technical personnel ²	3,540	20,607	27,070	27,878	28,521	28,909	29,360
Post Office clerks and mail handlers	141,002	128,457	171,614	180,077	185,068	184,311	185,044
City carriers ³	90,216	91,418	109,749	118,908	123,941	126,002	129,336
Rural carriers	32,553	32,022	31,286	31,269	31,201	31,131	31,068
Postal transportation	27,126	29,224	(4)	(5)	(5)	(5)	(5)
Maintenance service	15,743	13,338	14,069	15,605	16,322	16,575	16,847
All other	10,265	9,390	10,852	7,241	7,569	7,527	7,585
Part time (field)	136,804	144,712	153,881	158,708	153,281	150,031	144,554

- Entry represents zero. ¹ Comprises regional office and disbursement personnel, money order center, and supply center personnel, and beginning 1960, mailbag repair center and mailbag depository personnel formerly reported under Post Office clerks and mail handlers. Beginning 1960, includes mail equipment shops and other facilities field personnel formerly reported under "All other."

² Assistant postmasters only in 1950; beginning 1955, includes Post Office supervisors; beginning 1960, postal transportation supervisors and technical personnel.

³ Postal transportation employees included in Post Office clerks and mail handlers, and in Post Office supervisors and technical personnel.

⁴ Includes P.O. supervisors. ⁵ Beginning 1961, includes vehicle drivers, formerly included in "All other."

Source: Post Office Dept.; *Annual Report of the Postmaster General*.

No. 714. TELEPHONES, CALLS, AND RATES: 1940 TO 1964

[Includes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1967*, series R 1-13]

ITEM	1940	1950	1955	1960	1961	1962	1963	1964
Telephones (Dec. 31).....1,000..	21,976	43,131	56,436	74,342	77,422	80,069	84,453	88,736
Total per 1,000 population.....	164.9	280.8	336.9	407.7	417.7	430.3	442.7	458.7
Bell companies ¹.....1,000..	18,311	36,795	48,028	62,989	65,507	68,393	71,152	74,659
Dial operated ¹.....1,000..	10,915	27,893	41,788	61,144	64,253	67,490	70,586	74,303
Independent companies.....1,000..	3,665	6,336	8,408	11,353	11,915	12,576	13,298	14,077
Average daily conversations (1,000):								
Bell companies ^{1,2}	82,367	144,999	173,858	225,385	232,850	249,106	258,066	269,300
Local ¹	79,515	138,881	166,438	215,317	222,320	237,942	246,282	256,500
Long distance ^{1,2}	2,852	6,118	7,420	10,068	10,530	11,164	11,784	12,800
Independent companies ²	17,252	31,159	40,274	60,001	64,251	67,400	70,800	74,300
Local.....	16,738	29,927	38,832	58,005	62,177	65,168	68,400	71,800
Long distance ²	514	1,232	1,442	1,996	2,074	2,242	2,400	2,500
Toll rates in effect (Dec. 31), from New York City to: ³								
Philadelphia.....	\$0.45	\$0.45	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50
Chicago.....	1.90	1.55	1.50	1.45	1.45	1.45	1.45	1.45
Denver.....	3.25	2.20	2.20	1.80	1.80	1.80	1.80	1.80
San Francisco.....	4.00	2.50	2.50	2.25	2.25	2.25	2.25	2.25

¹ Comprises American Telephone and Telegraph Company and its principal telephone subsidiaries, which constitute the Bell Telephone System, plus Southern New England and Cincinnati and Suburban Bell Telephone Companies, together with telephones serviced by these companies. The Bell companies have no operations in Alaska, Hawaii, and Puerto Rico.

² Includes messages originating in independent company areas routed in part over Bell facilities.

³ Source: Federal Communications Commission. Represents rate for station-to-station, daytime, 3-minute call.

Source: American Telephone and Telegraph Company, New York, N.Y., except as noted; compiled from annual reports of A.T. & T. Co. and its principal telephone subsidiaries, and Southern New England and Cincinnati and Suburban Companies, and unpublished data.

No. 715. BELL TELEPHONE COMPANIES—SUMMARY: 1940 TO 1964

[Money figures in millions of dollars. As of December 31 or calendar year, as applicable. Comprises American Telephone and Telegraph Company and its principal telephone subsidiaries, which constitute the Bell Telephone System, plus Southern New England and Cincinnati and Suburban Bell Telephone Companies. Bell companies have no operations in Alaska, Hawaii, and Puerto Rico. See also *Historical Statistics, Colonial Times to 1967*, series R 14-27]

ITEM	1940	1950	1955	1960	1961	1962	1963	1964
Central offices, number ¹	7,189	8,656	9,958	11,212	11,449	11,683	12,445	13,107
Miles of wire ².....1,000..	91,274	144,256	201,235	307,876	327,319	346,997	368,594	394,860
Percent total wire mileage in cable.....	95.8	96.6	97.4	97.8	97.9	98.0	98.1	98.3
Miles of coaxial tube.....	-	62,741	78,647	96,783	106,507	107,748	135,111	155,091
Miles of microwave radio relay, broad band 1-way channel.....	-	7,517	125,438	298,091	365,167	422,314	514,220	599,864
Book value of plant (cost).....	4,887	10,375	15,773	24,722	26,587	28,667	30,854	33,885
Depreciation and amortization reserves.....	1,397	2,905	4,007	5,402	5,750	6,126	6,684	7,158
Operating revenues.....	1,209	3,342	5,425	8,111	8,616	9,105	9,796	10,549
Local exchange.....	811	1,097	3,168	4,965	4,921	5,219	5,628	5,779
Toll.....	361	1,208	2,000	3,058	3,284	3,544	3,814	4,291
Operating expenses ³	913	2,053	4,040	5,686	5,906	6,273	6,648	7,233
Federal income taxes.....	64	248	644	1,172	1,245	1,360	1,455	1,477
Interest expense.....	43	115	134	263	289	314	344	387
Net income.....	226	370	701	1,279	1,355	1,461	1,657	1,744
Dividends declared ⁴	180	263	484	770	871	917	934	1,085
Employees, number.....	282,224	534,751	629,773	594,880	581,245	578,403	585,941	604,677
Wages and salaries.....	522	1,742	2,631	3,283	3,291	3,513	3,660	3,890

- Entry represents zero.

¹ Beginning 1963, data on revised basis, not fully comparable with prior years.

² Excludes drop and block wire.

³ Includes operating taxes other than Federal income.

⁴ Includes dividends on all minority holdings of preferred and common stocks, but excludes intercompany dividends.

Source: American Telephone and Telegraph Company, New York, N.Y.; compiled from annual reports of A.T. & T. Co. and its principal telephone subsidiaries, and Southern New England and Cincinnati and Suburban Companies, and unpublished data.

No. 716. INDEPENDENT TELEPHONE COMPANIES—SUMMARY: 1940 TO 1963

[Money figures in millions of dollars. As of December 31 or calendar year, as applicable. Includes Hawaii for all years and Puerto Rico beginning 1950; for Alaska, includes 3 of 13 companies in 1953-1961 and 6 of 16 in 1963. Covers only those companies submitting operating information to the U.S. Independent Telephone Association; in 1963, reporting companies represented 83 percent of the independent telephones in service. See also *Historical Statistics, Colonial Times to 1957*, series R 28-42]

ITEM	1940	1950	1955	1959	1960	1961	1962	1963
All companies, number.....	6,400	5,500	4,700	3,600	3,300	3,000	2,800	2,700
Reporting companies, number.....	218	379	406	533	550	554	601	613
Number of telephones (incl. service telephones).....1,000	2,194	4,922	6,750	9,032	9,718	10,294	11,125	11,868
Miles of wire ¹.....1,000	(NA)	0,176	15,201	25,188	28,594	31,586	35,017	40,005
Telephone plant in service, book value.....	375	878	1,056	2,968	3,396	3,820	4,335	4,847
Depreciation reserves.....	85	203	326	522	600	690	793	911
Operating revenues ²	81	270	503	801	906	994	1,120	1,248
Local exchange.....	60	171	329	519	585	640	710	778
Toll.....	19	92	155	254	289	320	372	420
Operating expenses ³	61	211	354	560	630	681	755	835
Federal income taxes.....	(NA)	19	61	94	107	122	138	154
Interest expenses.....	6	12	22	50	58	66	78	88
Net income.....	13	29	67	103	117	133	157	177
Dividends declared.....	(NA)	(NA)	43	72	81	93	103	113
Employees.....1,000	(NA)	63	72	82	85	84	86	90
Wages and salaries.....	(NA)	147	224	331	359	380	404	440

NA. Not available.

¹ Miles of open wire and miles of wire in aerial, underground, and other cable.

² Revenues for the total independent industry (U.S. and Puerto Rico) including estimates for nonreporting companies, amounted to \$1,020 million in 1960, \$1,127 million in 1961, \$1,253 million in 1962, and \$1,389 million in 1963.

³ Excludes Federal income taxes.

Source: United States Independent Telephone Association, Washington, D.C.; annual report, *Statistics of the Independent Telephone Industry* (copyright).

No. 717. TELEPHONE SYSTEMS—SUMMARY, CLASS A CARRIERS: 1940 TO 1963

In millions of dollars, except as indicated. Includes Hawaii, Puerto Rico, and, beginning 1963, Virgin Islands; no class A carriers in Alaska. Excludes intercompany duplications. Covers class A telephone carriers filing annual reports with FCC. Class A carriers are those whose annual operating revenues exceeded \$100,000 for years prior to 1952, and \$250,000 thereafter; comparability of data relatively unaffected by change in coverage. Gross operating revenues of class A carriers (excluding intercompany duplications of Bell System) reporting in 1963 represented approximately 91 percent of revenues of all telephone carriers as estimated by U.S. Independent Telephone Association]

ITEM	1940	1945	1950	1955	1960	1961	1962	1963
Carriers.....number	78	76	71	53	52	56	60	60
Telephones.....1,000	19,336	24,814	38,525	49,753	65,735	68,418	71,542	74,547
Miles of wire.....1,000	93,688	104,383	147,380	204,879	315,541	335,981	355,074	379,211
Capital investment:								
Book cost of plant.....	5,071	6,057	10,702	16,224	25,714	27,712	29,938	32,200
Depreciation and amortization reserves.....	1,438	2,167	2,979	4,098	5,577	5,947	6,348	6,839
Ratio to book cost.....percent	28.35	35.77	27.84	25.26	21.69	21.46	21.20	21.18
Capital stock.....	2,112	2,240	3,195	5,967	8,383	8,867	9,139	9,266
Funded debt.....	1,214	1,389	3,779	4,612	7,720	7,805	8,879	9,275
Earned surplus.....	359	358	446	902	2,025	3,054	3,629	4,092
Dividends declared.....	185	193	270	498	796	901	954	971
Income and expenses:								
Operating revenues ¹	1,243	2,037	3,445	5,562	8,365	8,899	9,515	10,158
Local service revenues.....	899	1,108	2,058	3,253	4,823	5,095	5,412	5,742
Toll service revenues.....	370	807	1,245	2,049	3,145	3,386	3,653	3,952
Operating expenses.....	812	1,342	2,404	3,704	5,024	5,304	5,620	5,955
Operating ratio ².....percent	65.33	65.89	71.52	66.60	66.07	59.60	59.07	58.63
Net operating income ³	237	274	455	704	1,399	1,520	1,677	1,830
Net income.....	221	191	372	694	1,250	1,336	1,458	1,538
Employees ⁴.....1,000	305	398	565	649	627	606	603	611
Compensation of employees.....	537	936	1,798	2,693	3,384	3,477	3,630	3,784
Annual average.....dollars	1,763	2,350	3,182	4,149	5,398	5,738	6,020	6,194

¹ Includes company, service, and private line telephones.

² Includes miscellaneous revenues not shown separately.

³ Ratio of operating expenses, excluding taxes, to operating revenues.

⁴ After tax deductions.

⁵ For 1940, and beginning 1961, as of December 31; 1945 to 1960 as of October 31.

Source: Federal Communications Commission; annual report, *Statistics of Communications Common Carriers*.

No. 718. TELEPHONES—DISTRIBUTION, BY STATES: 1963

[As of December 31]

STATE	TELEPHONES (1,000)					Tele- phones per 100 popula- tion	House- holds with tele- phone service ¹ (percent)	Calls during 1963 ² (mil.)
	Total	Ownership		Type of service				
		Bell companies	All other	Busi- ness	Resi- dence			
United States.....	84,450	71,151	13,299	23,609	60,841	44.42	81	110,970
Alabama.....	1,048	903	145	278	770	31.18	65	1,847
Alaska.....	52	-	52	23	29	20.97	(NA)	-
Arizona.....	565	553	12	191	374	35.36	64	827
Arkansas.....	541	404	137	150	391	28.91	59	723
California.....	9,344	7,527	1,817	2,830	6,514	52.19	85	11,741
Colorado.....	928	913	15	285	643	46.50	80	1,350
Connecticut.....	1,465	1,460	5	395	1,070	54.39	94	1,990
Delaware.....	250	250	-	70	180	51.85	86	329
District of Columbia.....	707	707	-	340	367	88.02	88	1,060
Florida.....	2,428	1,672	756	787	1,641	42.08	71	2,966
Georgia.....	1,478	1,276	202	416	1,062	35.42	69	2,601
Hawaii.....	285	-	285	103	182	41.12	(NA)	-
Idaho.....	257	201	56	70	187	35.64	74	332
Illinois.....	5,271	4,456	815	1,495	3,776	51.55	87	5,740
Indiana.....	2,039	1,324	715	507	1,532	43.32	85	2,176
Iowa.....	1,233	841	397	263	975	44.45	93	1,179
Kansas.....	971	793	178	238	733	43.45	85	1,161
Kentucky.....	958	723	235	241	717	30.86	66	1,401
Louisiana.....	1,205	1,144	61	300	896	34.99	72	2,625
Maine.....	358	326	32	91	267	36.38	78	445
Maryland.....	1,568	1,566	2	417	1,151	47.13	86	2,144
Massachusetts.....	2,634	2,632	2	762	1,882	60.23	92	3,849
Michigan.....	3,040	3,264	376	914	2,726	44.60	88	5,337
Minnesota.....	1,578	1,276	302	372	1,206	44.83	92	1,984
Mississippi.....	537	516	21	140	397	23.26	50	1,085
Missouri.....	1,974	1,647	327	528	1,446	45.52	84	2,734
Montana.....	273	232	41	70	197	38.38	75	347
Nebraska.....	669	381	288	167	502	45.56	88	580
Nevada.....	186	75	111	79	107	49.08	70	97
New Hampshire.....	262	250	12	67	195	41.46	86	311
New Jersey.....	3,395	3,343	52	859	2,536	51.91	90	4,429
New Mexico.....	350	303	47	126	224	34.02	64	471
New York.....	9,724	9,023	701	2,995	6,729	54.49	87	13,186
North Carolina.....	1,417	774	643	386	1,031	29.58	64	1,450
North Dakota.....	235	164	71	60	175	37.05	83	261
Ohio.....	4,565	3,562	1,003	1,149	3,416	44.52	85	5,496
Oklahoma.....	1,022	904	118	294	728	40.70	74	1,554
Oregon.....	823	660	163	233	590	44.77	84	1,040
Pennsylvania.....	5,578	4,683	895	1,361	4,217	48.69	87	6,122
Rhode Island.....	395	395	(Z)	105	290	44.35	85	602
South Carolina.....	685	515	170	187	498	27.37	61	947
South Dakota.....	258	210	48	62	196	34.51	74	311
Tennessee.....	1,279	1,090	189	329	950	34.38	71	2,401
Texas.....	4,051	3,387	664	1,213	2,838	38.82	71	6,373
Utah.....	427	409	18	123	304	42.85	84	760
Vermont.....	150	132	18	41	100	38.29	83	167
Virginia.....	1,566	1,262	304	454	1,112	35.72	71	2,005
Washington.....	1,370	1,094	276	390	980	44.54	81	1,709
West Virginia.....	573	503	70	140	433	32.36	71	840
Wisconsin.....	1,728	1,285	443	463	1,266	42.30	87	1,659
Wyoming.....	150	141	9	46	104	44.32	78	187

- Entry represents zero. NA Not available. Z Less than 500.

¹ Households with service are the sum of residence main, apartment house PBX and residence service main telephones, and other residence PBX systems. There tends to be a slight overstatement of the proportion of households with telephone service.² Represents the number of completed local calls and completed and uncompleted toll calls originating from company and service telephones of the Bell companies.Source: Federal Communications Commission; annual report, *Statistics of Communications Common Carriers*, and unpublished data. Data from American Telephone and Telegraph Company.

No. 719. RURAL ELECTRIFICATION ADMINISTRATION—TELEPHONE PROGRAM, SUMMARY OF OPERATIONS: 1950 TO 1964

[Cumulative data cover period from program authorization, October 28, 1949, to December 31 of years shown.
Beginning 1955, includes Alaska]

ITEM	1950	1955	1960	1961	1962	1963	1964
Loans approved, cumulative, Dec. 31: ¹							
Borrowers.....	61	415	727	768	797	821	841
Amount..... mil. dol.	19	274	737	856	930	1,009	1,126
Route miles of line provided for, cumulative, Dec. 31..... 1,000.....	21	179	378	421	451	475	502
Subscribers provided for, cumulative, Dec. 31..... 1,000.....	75	607	1,467	1,667	1,782	1,883	2,011
To receive initial service..... 1,000.....	45	311	673	794	854	929	1,027
To receive improved service..... 1,000.....	29	296	794	873	928	954	984
Borrowers' operations:							
Borrowers reporting, Dec. 31.....	(NA)	285	695	737	761	784	² 794
Total subscribers served, Dec. 31..... 1,000.....	(NA)	284	1,142	1,291	1,420	1,523	² 1,581
Receiving initial service..... 1,000.....	(NA)	(NA)	404	480	548	620	² 661
Dial subscribers served, Dec. 31..... 1,000.....	(NA)	(NA)	1,023	1,214	1,377	1,499	² 1,569
Receiving initial service..... 1,000.....	(NA)	(NA)	869	1,037	1,175	1,289	² 1,347
Telephones in service, Dec. 31..... 1,000.....	(NA)	304	1,280	1,461	1,624	1,762	² 1,844
Total operating revenues during year mil. dol.	(NA)	16	94	113	134	153	² 161
Employees.....	(NA)	(NA)	9,672	10,006	10,250	10,603	² 10,900

NA Not available.

¹ Net loans (revisions deducted). ² As of June 30.

³ Subscribers receiving telephone service for first time as result of REA Rural Telephone Program.

⁴ Subscribers receiving dial telephone service for first time as a result of REA Rural Telephone Program. Includes subscribers who previously had manual service.

⁵ For 12 months ending June 30. ⁶ Preliminary.

Source: Dept. of Agriculture, Rural Electrification Administration; *Annual Statistical Report—Rural Telephone Borrowers*.

No. 720. RADIO AND OCEAN-CABLE TELEPHONE SERVICE, BY CLASS: 1961 TO 1963

[In thousands. Includes Hawaii. During 1963, 4 class A telephone carriers reporting to FCC furnished service between fixed stations and over ocean cables, 15 furnished marine service, and 36 furnished domestic public land mobile radio services; in addition, service between fixed stations and marine service was furnished by 1 class B telephone carrier, 1 cable carrier, and 3 radiotelegraph carriers, the revenue from which amounted to \$2,520,000, details for which were not reported]

CLASS OF SERVICE	1961		1962		1963	
	Charge-able calls	Gross revenues	Charge-able calls	Gross revenues	Charge-able calls	Gross revenues
FIXED STATIONS AND OCEAN-CABLE						
Message service.....	4,490	\$52,487	5,066	\$63,154	5,495	\$71,204
Overseas ¹	3,945	50,906	4,461	61,387	4,825	69,410
Bermuda and trans-Atlantic.....	1,326	21,060	1,671	22,668	1,745	29,039
Central and South American and Caribbean.....	1,869	16,745	1,984	21,927	2,113	22,840
Trans-Pacific.....	749	13,111	906	10,792	967	17,522
Within Hawaii.....	546	1,581	605	1,767	670	1,794
Private line service, overseas.....	(X)	6,538	(X)	8,989	(X)	9,735
MOBILE STATIONS						
Marine service to mobile stations.....	650	1,243	640	1,226	653	1,349
General service.....	613	1,210	611	1,200	640	1,330
Dispatching service.....	37	33	29	26	18	19
Domestic public land mobile radio services ²	4,375	6,985	4,793	7,435	5,191	8,285
General service.....	3,780	6,077	4,061	6,496	4,465	7,361
Direct dispatching service.....	549	692	489	553	439	504
Signaling or paging service.....	245	305	263	386	287	430
Private mobile radiotelephone systems.....	(X)	1,454	(X)	1,408	(X)	1,437

X Not applicable.

¹ Includes telephone calls between Hawaii and Puerto Rico and conterminous U.S., which are classified as international.

² In addition, this service was furnished by other telephone carriers and by miscellaneous common carriers. As of Dec. 31, 1961, 1962, and 1963, there were, respectively, 441, 474, and 493, such carriers with gross operating revenues of \$4,400,000, \$5,200,000, and \$5,700,000.

Source: Federal Communications Commission; annual report, *Statistics of Communications Common Carriers*.

Telegraph Carriers

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No. 721. DOMESTIC AND INTERNATIONAL TELEGRAPH CARRIERS—SUMMARY: 1940 to 1963

[Money figures in thousands of dollars. Figures cover principal carriers filing annual reports with Federal Communications Commission. See also *Historical Statistics, Colonial Times to 1957*, series R 53-65, for domestic, and series R 72-86, for international, telegraph data]

ITEM	1940	1950	1955	1960	1962	1963
DOMESTIC TELEGRAPH						
Number of carriers.....	2	1	1	1	1	1
Investment in plant and equipment.....	375,021	294,451	310,968	368,023	541,419	596,587
Depreciation and amortization reserves.....	97,746	123,227	135,820	168,606	183,099	198,930
Revenue messages transmitted ^{1 2}	1,000	1,000	1,000	1,000	1,000	1,000
Message revenues.....	191,645	178,904	153,910	124,319	112,487	104,220
Total operating revenues.....	97,906	152,248	188,855	189,789	181,474	176,654
Operating revenue deductions ³	114,587	177,694	228,816	262,366	264,110	280,822
Operating income ⁴	110,856	107,280	200,024	246,708	237,130	266,000
Net income transferred to earned surplus.....	3,731	8,664	13,179	11,247	10,700	19,162
Dividends declared.....	372	7,353	10,331	10,205	10,405	24,931
Miles of wire in cable.....	1,045	2,469	5,695	8,950	10,484	10,490
Miles of aerial wire.....	1,000	440	309	383	417	412
Number of employees ⁵	1,000	1,820	929	712	647	598
Total compensation.....	59,670	40,482	37,785	32,655	30,021	23,015
Teletypewriter exchange service messages (TWX), Bell companies.....	74,736	116,937	143,289	164,624	168,278	180,650
INTERNATIONAL TELEGRAPH						
Ocean-cable:						
Number of carriers.....	5	4	3	3	3	3
Investment in plant and equipment.....	111,129	97,283	93,228	88,568	80,421	54,703
Depreciation and amortization reserves.....	64,492	63,911	57,972	57,746	43,146	34,458
Revenue messages transmitted ^{2 6}	1,000	1,000	1,000	1,000	1,000	1,000
Message revenues.....	7,687	9,969	10,671	11,186	11,318	11,263
Total operating revenues.....	16,733	20,231	23,105	29,001	27,008	29,499
Operating revenue deductions ³	17,840	24,649	33,459	36,169	34,155	36,784
Operating income ⁴	10,039	22,263	29,158	34,682	35,317	35,289
Net income transferred to earned surplus.....	1,434	1,937	1,450	617	633	1,267
Dividends declared.....	1,573	2,165	1,486	838	878	16,652
Miles (nautical) of ocean cable.....	957	884	884	353	-	1,271
Miles of wire in non-ocean cable.....	1,000	96	88	76	55	42
Miles of aerial wire.....	1,000	8	6	5	14	6
Number of employees ⁵	1,000	8	7	6	7	6
Total compensation.....	4,534	5,455	5,919	5,614	5,196	4,082
Radiotelegraph:						
Number of carriers.....	8	7	7	6	6	6
Investment in plant and equipment.....	30,886	38,855	41,052	65,240	82,939	98,762
Depreciation and amortization reserves.....	16,748	18,846	18,490	24,864	20,248	32,481
Revenue messages transmitted ²	1,000	1,000	1,000	1,000	1,000	1,000
Message revenues.....	8,952	12,609	14,971	17,092	17,250	18,130
Total operating revenues.....	12,537	22,259	27,398	33,285	33,932	35,540
Operating revenue deductions ³	14,247	25,684	34,501	50,807	50,217	61,038
Operating income ⁴	10,996	22,963	29,208	42,203	46,787	40,813
Net income transferred to earned surplus.....	2,269	1,867	1,952	4,963	5,552	7,841
Dividends declared.....	2,025	2,373	3,534	7,153	7,240	8,314
Number of employees ⁵	838	8	650	1,070	3,620	1,720
Total compensation.....	3,549	5,264	5,925	5,307	5,326	5,896
	6,207	18,209	24,624	28,551	31,140	32,496

- Entry represents zero.

¹ Includes telegrams between conterminous U.S. and Alaska. Beginning 1950, press messages included on unequated basis; equated basis for 1940.

² Principally as estimated by reporting carriers on basis of actual counts for test periods.

³ Includes depreciation and operating taxes.

⁴ After recorded provision for Federal income taxes including those on noncommunications activities.

⁵ 1940, end of December; thereafter, end of October.

⁶ Includes Hawaii and Puerto Rico and also international telegrams originating or terminating in Alaska.

Source: Federal Communications Commission; annual report, *Statistics of Communications Common Carriers* (prior to 1957 titled *Statistics of the Communications Industry in the United States*).

No. 722. COMMUNICATIONS RATES BETWEEN NEW YORK CITY AND SELECTED CITIES: 1919 TO 1965

[See also *Historical Statistics, Colonial Times to 1957*, series R 68-71 and R 86-89]

EFFECTIVE DATE	BETWEEN NEW YORK CITY AND—				EFFECTIVE DATE	BETWEEN NEW YORK CITY AND—			
	Phila- delphia	Chicago	Denver	San Fran- cisco		London	Cairo	Tokyo	Buenos Aires
TELEGRAPH RATES ¹					INTERNATIONAL CABLE AND RADIO- TELEGRAPH RATES ⁴				
1919, April 1.....	\$0.30	\$0.60	\$0.90	\$1.20	1940.....	\$0.20	\$0.42	\$0.72	\$0.42
1946, December 29.....	.36	.72	1.08	1.44	1945, May 1.....	.20	.42	.24	.20
1950, February 1.....	.40	.75	1.25	1.45					
1954, July 16.....	.85	1.25	1.70	1.70	1948, April 28.....	.25	.30	.30	.28
1956, August 26.....	.95	1.80	1.75	1.75	1949, February 2.....	.25	.40	.40	.35
1958, August 1.....	1.05	1.40	1.85	1.85	1950, July 1.....	.19	.30	.30	.27
1960, October 17.....	1.10	1.45	1.90	1.90	1958, August 1.....	.21	.34	.34	.31
1963, July 10.....	1.20	1.60	2.10	2.10	In effect Jan. 1, 1965.....	.21	.34	.34	.31
In effect Jan. 1, 1965.....	1.20	1.60	2.10	2.10					
TELETYPEWRITER EXCHANGE SERVICE (TWX) RATES ²					INTERNATIONAL TELEPHONE RATES ⁵				
1931, November 21 ³.....	.35	1.10	1.80	2.40	1940.....	21.00	30.00	19.50	15.00
1946, February 1.....	.35	1.05	1.65	1.75	1944.....	21.00	30.00	19.50	12.00
1953, July 1.....	.45	1.20	1.65	1.75	1945.....	12.00	30.00	19.50	12.00
1960, February 7.....	.45	1.15	1.65	1.75	1946.....	12.00	12.00	12.00	12.00
In effect Jan. 1, 1965.....	.45	1.15	1.65	1.75	In effect Jan. 1, 1965.....	12.00	12.00	12.00	12.00

¹ Beginning Sept. 1, 1951, minimum charge for 15 text words or less; prior to that, for 10 text words or less.

² For 3 minutes or less, 2-way, telephone company rates. Since 1959, the telegraph company has offered similar service called "Telex" with a different rate structure. ³ Beginning of service.

⁴ Per plain language telegraph-word including address and signature.

⁵ For person-to-person, 3-minute call. Station-to-station service available to Tokyo beginning June 18, 1964, with a 3-minute initial period rate of \$9.00.

Source: Federal Communications Commission; unpublished data.

No. 723. BROADCAST AND OTHER STATIONS AUTHORIZED AND OPERATORS LICENSED, BY CLASS: 1955, 1960, AND 1964

[As of June 30. Includes Alaska, Hawaii, Puerto Rico, and Virgin Islands. See also *Historical Statistics, Colonial Times to 1957*, series R 90-94 and R 120-126]

CLASS OF STATION OR OPERATOR	1955	1960	1964	CLASS OF STATION OR OPERATOR	1955	1960	1964
Safety and special radio services¹	300,227	651,993	1,418,826	Broadcast services²	6,257	11,179	17,231
Amateur and disaster services.....	142,387	228,206	280,818	Commercial AM.....	2,840	3,531	4,061
Citizens.....	12,334	126,034	682,307	Commercial TV.....	582	663	668
Aviation services.....	43,855	91,180	107,557	Educational TV.....	34	64	107
Aircraft.....	30,228	72,017	84,110	TV translator.....	(NA)	302	1,013
Aeronautical and fixed.....	2,082	3,942	5,128	Auxiliary TV.....	516	1,093	1,559
Civil air patrol.....	11,108	14,432	17,233	Experimental TV.....	15	24	28
Other.....	437	789	1,086	Commercial FM.....	552	912	1,371
Industrial services.....	24,854	64,804	124,347	Educational FM.....	127	181	257
Power.....	8,182	12,427	14,621	International.....	(NA)	5	3
Business.....	-	19,161	62,048	Remote pickup.....	1,546	4,279	7,020
Petroleum.....	6,178	8,591	9,660	Studio transmitter link.....	43	65	121
Forest products.....	1,144	1,876	2,596	Other.....	2	20	123
Special industrial.....	8,190	21,901	32,876	Common carrier services	1,948	4,386	8,343
Other.....	1,210	848	2,646	Experimental.....	1,175	-	-
Land transportation services	7,668	11,452	14,815	Point to point micro-wave.....	-	2,379	4,143
Railroad.....	1,405	3,065	4,664	Local TV transmission.....	-	77	73
Taxicab.....	4,626	4,935	4,993	Rural radio.....	-	473	439
Interurban property.....	-	1,861	2,857	Developmental.....	-	51	28
Other.....	1,787	1,591	2,301	Domestic public land mobile.....	724	1,350	3,618
Marine services.....	50,714	97,411	161,593	Fixed public telegraph.....	-	-	9
Ship.....	49,594	95,626	159,390	International control-fixed.....	-	-	11
Alaskan.....	786	1,240	1,558	Fixed public telephone.....	19	12	8
Coastal and other.....	334	545	845	Fixed public telegraph.....	30	44	14
Public safety services.....	18,415	32,906	47,389	Experimental services, miscellaneous	625	728	698
Police.....	9,725	14,039	18,605	Radio operators.....	1,123,125	2,154,402	2,870,112
Fire.....	2,337	5,935	8,496	Commercial operators.....	986,363	1,947,369	2,813,875
Forestry conservation.....	2,967	3,667	4,042	Amateur operators.....	136,762	207,034	256,237
Highway maintenance.....	1,830	3,582	5,416				
Special emergency.....	1,839	3,994	5,558				
Other.....	217	1,689	6,272				

- Entry represents zero. NA Not available.

¹ Each license, construction permit, or combination construction permit and license is counted as one station; therefore, a station might include a transmitter and many mobile units.

² Stations licensed or holding construction permits.

Source: Federal Communications Commission; *Annual Report*, and unpublished data.

No. 724. COMMERCIAL BROADCAST STATIONS AUTHORIZED AND ON THE AIR: 1945 TO 1965

[As of January 1. Includes Alaska, Hawaii, Puerto Rico, Virgin Islands, and beginning 1958, Guam. Figures differ from those shown in table 725 because of different tabulations. See *Historical Statistics, Colonial Times to 1957*, series R 90-94, for number of operating stations]

YEAR	TOTAL		AM RADIO		FM RADIO		TELEVISION	
	Author-ized	On the air	Author-ized	On the air	Author-ized	On the air	Author-ized	On the air
1945	969	936	908	884	52	46	9	6
1947	2,221	1,174	1,485	1,027	684	140	52	7
1948	3,010	1,977	1,927	1,586	1,010	374	73	17
1949	3,182	2,627	2,092	1,877	966	700	124	50
1950	3,098	2,881	2,199	2,051	788	733	111	97
1951	3,129	2,981	2,317	2,198	703	676	109	107
1952	3,132	3,042	2,374	2,297	650	637	108	108
1953	3,393	3,088	2,490	2,357	630	616	273	125
1954	3,738	3,396	2,602	2,487	580	560	556	349
1955	3,864	3,599	2,740	2,635	559	553	565	411
1956	4,044	3,772	2,901	2,790	557	540	596	442
1957	4,275	3,975	3,091	2,974	554	530	630	471
1958	4,503	4,185	3,256	3,156	590	537	657	492
1959	4,792	4,374	3,401	3,287	695	578	666	509
1960	4,993	4,611	3,487	3,416	838	678	688	517
1961	5,269	4,858	3,627	3,607	1,018	821	624	530
1962	5,558	5,158	3,788	3,653	1,128	990	642	545
1963	5,749	5,407	3,884	3,770	1,218	1,081	647	556
1964	5,898	5,606	3,994	3,897	1,240	1,146	655	563
1965	6,169	5,814	4,040	3,972	1,458	1,270	661	572

Source: Federal Communications Commission; annual releases, *AM-FM, TV Broadcast Financial Data*, and unpublished data.

No. 725. COMMERCIAL BROADCAST STATIONS ON THE AIR—STATES AND OTHER AREAS: JANUARY 1, 1964

STATE OR OTHER AREA	Total	AM	FM	TV	STATE OR OTHER AREA	Total	AM	FM	TV
Total	5,569	3,904	1,100	565	Montana	51	40	3	8
United States	5,512	3,866	1,090	556	Nebraska	60	40	8	12
Alabama	155	121	22	12	Nevada	27	18	4	5
Alaska	21	14	2	5	New Hampshire	29	22	6	1
Arizona	75	58	8	9	New Jersey	49	28	21	—
Arkansas	94	76	12	6	New Mexico	63	49	8	6
California	372	220	116	36	New York	233	145	63	25
Colorado	85	62	12	11	North Carolina	241	173	55	13
Connecticut	53	36	12	5	North Dakota	33	22	—	11
Delaware	12	9	3	—	Ohio	202	103	79	20
Dist. of Columbia	18	6	7	5	Oklahoma	83	60	13	10
Florida	232	179	36	17	Oregon	102	79	12	11
Georgia	184	154	19	11	Pennsylvania	262	162	71	19
Hawaii	35	23	2	10	Rhode Island	22	15	5	2
Idaho	60	40	3	7	South Carolina	114	89	15	10
Illinois	190	114	56	20	South Dakota	36	26	1	9
Indiana	123	69	37	17	Tennessee	164	125	25	14
Iowa	90	68	10	12	Texas	386	273	68	45
Kansas	78	56	12	10	Utah	36	30	3	3
Kentucky	117	93	17	7	Vermont	18	16	1	1
Louisiana	107	85	10	12	Virginia	155	112	32	11
Maine	40	30	4	6	Washington	125	91	21	13
Maryland	74	46	24	4	West Virginia	74	55	10	9
Massachusetts	96	60	27	9	Wisconsin	180	84	32	14
Michigan	177	114	47	16	Wyoming	83	29	1	3
Minnesota	95	76	10	9	Puerto Rico	50	34	9	7
Mississippi	91	81	2	8	Guam	2	1	—	1
Missouri	130	90	23	17	Virgin Islands	5	3	1	1

- Entry represents zero.

Source: Federal Communications Commission; annual releases, *AM-FM, TV Broadcast Financial Data*, and unpublished data.

No. 726. RADIO BROADCAST INDUSTRY FINANCES: 1950 TO 1963

[Money figures in millions of dollars. Includes Alaska, Hawaii, Puerto Rico, and Virgin Islands. Excludes FM (independents). See also headnote, table 728. See *Historical Statistics, Colonial Times to 1967*, series R 103-107, for data including FM (independents)]

ITEM	1950	1955	1959	1960	1961	1962	1963
Number of networks, Dec. 31.....	7	7	4	4	4	4	4
Number of stations, Dec. 31.....	2,143	2,704	3,380	3,470	3,654	3,772	3,904
Broadcast revenues.....	443	452	556	592	584	627	670
7 networks (incl. owned and operated stations) ¹	111	78	60	63	62	64	69
Other stations.....	333	374	495	529	522	563	601
Broadcast expenses of networks and stations.....	372	406	512	544	552	580	612
7 networks (incl. owned and operated stations) ¹	92	72	65	66	61	62	63
Other stations.....	281	334	447	478	490	518	549
Broadcast income before Federal income tax.....	71	46	44	48	32	47	58
7 networks (incl. owned and operated stations) ¹	19	6	-5	-3	(Z)	2	6
Other stations.....	52	40	49	51	32	45	52
BROADCAST REVENUES							
Revenues from time sales, net.....	401	411	520	556	551	593	635
Commissions to regularly established agencies, representatives, brokers and others.....	53	46	63	67	68	72	77
Revenues from time sales.....	454	457	583	623	617	665	712
Revenues from network time sales, net.....	132	64	36	35	36	37	42
Revenues from non-network time sales to:							
National and regional advertisers and sponsors.....	119	120	188	202	197	208	220
Local advertisers and sponsors.....	203	272	359	385	384	420	450
Revenues from incidental broadcast activities.....	42	41	36	36	33	33	35
Talent.....	25	27	22	23	19	19	20
Sundry broadcast revenues.....	17	15	13	13	13	14	15

Z Less than \$500,000. ¹ Beginning 1959, covers the operations of 4 nationwide networks and their owned and operated stations. Excludes regional networks.

Source: Federal Communications Commission; annual release, *AM-FM Broadcast Financial Data*.

No. 727. TELEVISION BROADCAST INDUSTRY FINANCES: 1950 TO 1963

[Money figures in millions of dollars. Includes Alaska, Hawaii, Puerto Rico, and Virgin Islands. See also headnote, table 728. See also *Historical Statistics, Colonial Times to 1967*, series R 114-117]

ITEM	1950	1955	1958	1959	1960	1961	1962	1963
Number of networks, Dec. 31.....	4	4	3	3	3	3	3	3
Number of stations, Dec. 31.....	107	437	514	519	530	540	554	565
Broadcast revenues.....	106	745	1,030	1,164	1,269	1,318	1,486	1,597
3 networks (incl. owned and operated stations) ¹	56	374	517	576	641	675	764	820
Other stations.....	50	371	513	588	628	643	732	777
Broadcast expenses of networks and stations.....	115	595	858	942	1,025	1,081	1,175	1,254
3 networks (incl. owned and operated stations) ¹	66	306	440	488	546	588	643	684
Other stations.....	50	289	418	453	479	493	532	570
Broadcast income before Federal income tax.....	² 9	150	172	222	244	237	312	343
3 networks (incl. owned and operated stations) ¹	² 10	68	77	88	95	87	111	136
Other stations.....	1	82	95	134	149	150	200	207
BROADCAST REVENUES								
Revenues from time sales, net.....	76	572	792	800	952	962	1,083	1,158
Commissions to regularly established agencies, representatives, brokers and others.....	14	109	159	180	195	198	220	236
Revenues from time sales.....	91	681	951	1,071	1,147	1,160	1,304	1,395
Revenues from network time sales, net.....	35	309	425	446	472	480	522	538
Revenues from non-network time sales to:								
National and regional advertisers and sponsors.....	25	222	345	424	459	469	540	601
Local advertisers and sponsors.....	30	150	181	201	216	211	243	260
Revenues from incidental broadcast activities.....	30	172	238	274	317	356	403	439
Talent.....	15	113	172	197	234	287	323	357
Sundry broadcast revenues.....	14	60	66	77	82	70	80	82

¹ 4 networks prior to Sept. 15, 1955, when DuMont ceased network operations.

² Loss.

Source: Federal Communications Commission; annual release, *TV Broadcast Financial Data*.

NO. 728. BROADCAST REVENUES OF ALL NETWORKS AND STATIONS, AM AND AM-FM, FM, AND TV: 1940 TO 1963

[Includes Alaska, Hawaii, Puerto Rico, and Virgin Islands. Total broadcast revenues are defined as total time sales of all networks and stations, less commissions to agencies and plus incidental revenues, such as sale of talent and program material. For each year, excludes data for a certain number of reports received too late to be included. See also *Historical Statistics, Colonial Times to 1957*, series R 104-105 and R 114-115]

YEAR	TOTAL		AM AND AM-FM		FM (INDEPENDENTS)		TV	
	Stations (Dec. 31)	Revenues (\$1,000)	Stations (Dec. 31)	Revenues ¹ (\$1,000)	Stations (Dec. 31)	Revenues (\$1,000)	Stations (Dec. 31)	Revenues ² (\$1,000)
1940.....	765	147,147	765	147,147	-	-	-	-
1942.....	862	178,894	851	178,839	6	13	6	42
1943.....	852	215,428	841	215,318	5	26	6	84
1944.....	885	275,550	875	275,299	4	32	6	219
1945.....	912	299,715	901	299,338	5	39	6	338
1946.....	1,043	323,228	1,025	322,553	8	17	10	658
1947.....	1,531	366,032	1,464	363,714	52	422	15	1,896
1948.....	1,974	416,867	1,824	406,995	103	1,251	47	8,621
1949.....	2,223	449,544	2,021	413,785	104	1,420	98	34,330
1950.....	2,336	550,395	2,143	443,058	86	1,422	107	105,915
1951.....	2,374	686,176	2,200	419,226	68	1,266	108	235,684
1952.....	2,502	793,015	2,324	468,592	56	1,100	122	324,223
1953.....	2,813	908,025	2,434	474,585	45	800	334	432,640
1954.....	3,008	1,042,486	2,555	448,785	43	764	410	592,037
1955.....	3,179	1,198,066	2,704	452,338	38	1,013	437	744,714
1956.....	3,440	1,377,460	2,915	479,100	51	1,415	474	896,885
1957.....	3,665	1,460,468	3,097	515,167	67	2,035	501	943,266
1958.....	3,804	1,553,182	3,197	520,507	93	2,546	514	1,030,039
1959.....	4,047	1,723,987	3,380	555,732	148	4,303	519	1,163,952
1960.....	4,218	1,866,304	3,470	591,863	218	5,814	530	1,298,627
1961.....	4,369	1,909,071	3,610	553,012	249	7,139	540	1,318,320
1962.....	4,532	2,122,300	3,698	626,800	279	9,300	555	1,486,200
1963.....	4,691	2,278,300	3,832	669,700	294	11,400	565	1,597,200

- Entry represents zero.

¹ Includes 4 nationwide networks and, prior to 1959, 3 regional networks.

² Includes 4 TV networks beginning in 1948 when commercial TV network operation started; covers 3 networks after Sept. 15, 1955, when DuMont ceased network operations.

Source: Federal Communications Commission; annual release, *AM-FM, TV Broadcast Financial Data*.

NO. 729. PERCENT OF HOUSEHOLDS WITH TELEVISION SETS, BY AREA AND REGION: 1955, 1960, AND 1964

[Beginning 1960, includes Alaska and Hawaii. For composition of regions, see figure I, p. XII; for definition of standard metropolitan statistical areas, see headnote, table 12 (1955 and 1960 data refer to 168 SMSA's as constituted in 1950; 1964 data refer to 212 SMSA's as constituted in 1960). See *Historical Statistics, Colonial Times to 1957*, series R 98, for number of families with TV sets]

AREA OR REGION	June 1955	May 1960	May 1964	AREA OR REGION	June 1955	May 1960	May 1964
Households having 1 set or more.....	67	88	93	By region and division—Con.			
By area:				South.....	53	82	89
Inside SMSA's.....	78	91	95	South Atlantic.....	(NA)	84	91
Outside SMSA's.....	50	82	89	East South Central.....	(NA)	78	84
By region and division:				West South Central.....	(NA)	81	90
Northeast.....	80	92	96	West.....	62	87	92
New England.....	(NA)	93	98	Mountain.....	(NA)	83	92
Middle Atlantic.....	(NA)	92	95	Pacific.....	(NA)	88	92
North Central.....	72	89	95	By number of sets:			
East North Central.....	(NA)	90	96	No set.....	33	12	7
West North Central.....	(NA)	87	92	One set.....	65	77	76
				Two sets or more.....	2	11	17

NA Not available.

Source: Dept. of Commerce, Bureau of the Census; *Current Housing Reports*, Series H-121.

No. 730. NEWSPAPERS AND PERIODICALS—NUMBER AND CIRCULATION, BY FREQUENCY OF ISSUE, AND RECEIPTS: 1947 TO 1958

[Circulation in thousands; money figures in millions. Excludes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1857*, series R 173-186]

FREQUENCY OF ISSUE AND RECEIPTS	NEWSPAPERS			PERIODICALS		
	1947	1954	1958	1947	1954	1958
Number.....	10,282	9,022	18,645	4,610	3,427	24,455
Aggregate circulation ¹	119,567	136,353	1136,803	384,628	449,285	4391,936
Daily (except Sunday):						
Morning: Number.....	400	385	357	-	-	-
Circulation.....	21,796	22,475	23,916	-	-	-
Evening: Number.....	1,454	1,485	1,421	8112	884	-
Circulation.....	31,490	33,935	34,797	8842	8748	-
Sunday: Number.....	416	510	552	-	-	-
Circulation.....	42,736	46,350	48,262	-	-	-
Triweekly: Number.....	21	29	(NA)	5	(⁶)	(NA)
Circulation.....	151	198	(NA)	5	(⁶)	(NA)
Semiweekly: Number.....	230	288	(NA)	21	832	(NA)
Circulation.....	926	1,327	(NA)	182	8263	(NA)
Weekly: Number.....	7,705	6,249	6,315	892	487	478
Circulation.....	21,408	30,336	29,828	69,393	82,066	4105,147
Semimonthly: Number.....	-	-	-	233	148	(NA)
Circulation.....	-	-	-	13,832	19,842	(NA)
Monthly: Number.....	-	-	-	2,253	1,604	1,445
Circulation.....	-	-	-	194,824	204,026	4185,003
Quarterly: Number.....	-	-	-	647	422	364
Circulation.....	-	-	-	45,535	43,339	425,848
Other: Number.....	56	126	(NA)	447	650	768
Circulation.....	1,060	1,732	(NA)	60,015	99,001	475,938
Receipts.....	\$1,792	\$2,913	\$3,458	\$1,019	\$1,413	\$1,578
Subscription and sales.....	600	837	979	407	531	556
Advertising.....	1,192	2,050	2,444	612	883	983

- Entry represents zero. NA Not available.

¹ Not comparable with 1954 figures because no separate data were collected in 1958 for newspapers published triweekly, semiweekly, "other." Comparable totals for 1954 would be: Newspapers, 8,589, and circulation, 133,096 thousand.

² Includes 1,400 publications not specified as to circulation and frequency of issue.

³ Totals of average circulation per issue for individual publications from publishers reporting receipts on a combined frequency of issue basis and from publishers reporting receipts separately for each frequency of issue.

⁴ Excludes any estimated circulation for the relatively small number of publications for which circulation was not reported, hence not strictly comparable with 1954.

⁵ Daily only, neither morning nor evening.

⁶ Semiweekly and triweekly figures combined to avoid disclosure of individual company figures.

⁷ For 1954, includes \$26 million for newspapers and \$19 million for periodicals, not distributed by publishers between subscription and sales and advertising; for 1958, \$35 million for newspapers and \$40 million for periodicals.

Source: Dept. of Commerce, Bureau of the Census; U.S. Census of Manufactures: 1958, Series MC-27A.

No. 731. NEWSPRINT CONSUMPTION, NEWSPAPER PAGES PER ISSUE, AND CIRCULATION PER FAMILY: 1940 TO 1964

[Beginning 1960, includes Alaska and Hawaii, except as noted]

YEAR	NEWSPRINT CONSUMPTION (1,000 tons)						PAGES OF NEWSPAPER PER ISSUE ³		NEWSPAPER CIRCULATION PER FAMILY	
	Total ¹	By newspapers ²					Daily	Sun- day	Daily	Sun- day
		Total	For advertising content		For editorial content					
			Amount	Per- cent	Amount	Per- cent				
1940.....	3,739	3,507	1,403	40.0	2,104	60.0	27	86	1.17	0.92
1945.....	3,461	3,237	1,667	51.5	1,570	48.5	22	70	1.28	1.06
1950.....	5,863	5,521	3,279	59.4	2,242	40.6	36	112	1.23	1.06
1955.....	6,484	6,173	3,827	62.0	2,346	38.0	40	132	1.16	0.97
1959.....	7,073	6,578	4,026	61.2	2,552	38.8	42	141	1.13	0.93
1960.....	7,326	6,813	4,156	61.0	2,657	39.0	43	142	1.12	0.91
1961.....	7,358	6,843	4,126	60.3	2,717	39.7	43	139	1.11	0.90
1962.....	7,412	6,893	4,205	61.0	2,688	39.0	45	145	1.10	0.90
1963.....	7,477	6,954	4,256	61.2	2,698	38.8	46	148	1.08	0.87
1964.....	7,933	7,378	4,552	61.7	2,826	38.3	47	154	1.07	0.87

¹ Apparent consumption; equals production plus imports minus exports adjusted for year-end change in newspaper publishers' inventories and domestic mill stocks.

² Based on information of Media Records, Inc., for 52 cities.

³ Circulation of 100,000 or more, conterminous U.S.

Source: Dept. of Commerce, Business and Defense Services Administration; unpublished data.

No. 732. DAILY AND SUNDAY NEWSPAPERS—NUMBER AND CIRCULATION, 1940 TO 1964, AND BY STATES, 1964

[Circulation figures in thousands. As of October 1, except number of newspapers for 1964 are as of January 1, 1965. Beginning 1959, includes Alaska and Hawaii. For English language newspapers only. See also *Historical Statistics, Colonial Times to 1867*, series R 160-172]

YEAR AND STATE	DAILY NEWSPAPERS						SUNDAY NEWS-PAPERS	
	Total		Morning		Evening		Number	Net paid circulation
	Number	Net paid circulation	Number	Net paid circulation	Number	Net paid circulation		
1940.....	1,878	41,132	330	16,114	1,498	25,018	525	32,371
1945.....	1,749	48,384	330	19,240	1,419	29,144	485	39,890
1950.....	1,772	53,829	322	21,266	1,450	32,563	549	46,582
1955.....	1,760	56,147	316	22,183	1,454	33,964	541	46,448
1959.....	1,755	58,300	306	23,547	1,455	34,753	564	47,488
1960.....	1,763	58,882	312	24,029	1,459	34,853	563	47,690
1961.....	1,761	59,261	312	24,094	1,458	35,167	558	48,216
1962.....	1,760	59,849	318	24,563	1,451	35,286	558	48,888
1963.....	1,754	58,905	311	23,459	1,453	35,446	550	46,830
1964.....								
United States ¹	1,763	60,412	323	24,365	1,452	36,048	561	48,368
Alabama.....	22	715	6	228	16	487	15	595
Alaska.....	7	62	1	1	6	61	1	3
Arizona.....	15	399	3	189	12	210	4	284
Arkansas.....	24	408	5	158	29	250	11	318
California.....	132	5,503	20	2,143	112	3,360	32	4,533
Colorado.....	26	661	4	239	22	422	9	636
Connecticut.....	25	855	6	250	19	605	6	490
Delaware.....	3	137	1	40	2	97	1	15
District of Columbia.....	3	949	1	439	2	511	2	889
Florida.....	47	1,719	15	1,052	32	667	30	1,584
Georgia.....	31	1,050	6	418	26	641	12	975
Hawaii.....	5	203	1	62	4	141	2	167
Idaho.....	14	155	5	76	10	79	5	123
Illinois.....	83	3,880	10	1,900	74	1,980	19	3,032
Indiana.....	89	1,721	11	484	78	1,236	18	1,148
Iowa.....	43	961	4	300	41	661	9	869
Kansas.....	62	651	6	233	47	418	14	420
Kentucky.....	27	734	7	315	21	419	13	536
Louisiana.....	21	771	5	378	16	394	11	632
Maine.....	9	255	5	200	4	55	1	106
Maryland.....	12	760	4	228	8	527	3	687
Massachusetts.....	14	2,338	6	1,007	43	1,331	9	1,572
Michigan.....	53	2,384	1	521	52	1,862	11	2,081
Minnesota.....	29	1,064	5	384	24	680	7	988
Mississippi.....	19	305	4	92	15	214	7	172
Missouri.....	63	1,777	7	740	46	1,037	14	1,504
Montana.....	16	180	4	117	12	83	9	168
Nebraska.....	20	483	3	168	17	314	5	359
Nevada.....	7	120	2	42	5	77	3	101
New Hampshire.....	9	138	1	27	9	112	1	45
New Jersey.....	30	1,654	7	441	23	1,213	6	1,040
New Mexico.....	19	194	2	57	17	130	13	170
New York.....	185	7,945	21	4,270	65	3,675	17	7,461
North Carolina.....	48	1,170	9	570	39	600	16	810
North Dakota.....	13	191	3	40	10	145	2	94
Ohio.....	96	3,349	8	555	88	2,495	16	2,120
Oklahoma.....	52	860	8	418	44	442	40	718
Oregon.....	21	602	3	260	18	342	5	478
Pennsylvania.....	117	4,080	26	1,309	94	2,771	11	3,076
Rhode Island.....	7	313	1	68	6	244	2	207
South Carolina.....	17	514	8	362	9	152	7	397
South Dakota.....	12	170	1	3	11	167	4	120
Tennessee.....	29	1,072	7	500	22	572	11	821
Texas.....	115	3,008	25	1,347	90	1,660	80	2,810
Utah.....	5	259	1	109	4	150	4	254
Vermont.....	9	103	2	35	7	45	1	32
Virginia.....	32	967	6	442	26	525	12	643
Washington.....	24	962	5	313	19	649	11	850
West Virginia.....	30	483	9	231	21	252	8	355
Wisconsin.....	38	1,101	3	243	35	918	7	822
Wyoming.....	10	72	6	36	4	36	4	38

¹ Adjusted to account for all-day papers listed in morning and evening figures (circulations divided between them).

² Adjusted to allow for duplication of Texarkana, Ark.-Tex., and Bristol, Tenn.-Va., papers in individual State tabulations (circulations divided between States), and for Covington, Ky., papers also included in Ohio.

Source: Editor and Publisher, New York, N.Y.; *International Year Book Number, 1965*.

No. 733. BOOKS AND PAMPHLETS—QUANTITY AND VALUE OF SALES BY ALL BOOK PUBLISHERS: 1954, 1958, and 1963

[Beginning 1958, includes Alaska and Hawaii. Includes number of copies sold and dollar receipts reported not only by establishments classified in the "Books, publishing and printing" industry but also by establishments reporting these receipts as "secondary" activities in other industries. Detail does not add to total because of reclassification of items from census to census. "N.e.c." means not elsewhere classified]

PRODUCT	1954		1958		1963 (prel.)	
	Copies sold	Receipts	Copies sold	Receipts	Copies sold	Receipts
Total	1,000 (X)	\$1,000 665,419	1,000 (X)	\$1,000 1,010,713	1,000 (X)	\$1,000 1,502,080
Books	770,840	628,551	(X)	959,429	(X)	1,436,356
Textbooks:						
Elementary:						
Hardbound	40,541	57,365	47,540	76,632	65,964	123,826
Paperbound	23,037	10,242	26,778	11,603	40,271	22,663
High school:						
Hardbound	15,627	31,927	23,057	58,191	40,842	103,277
Paperbound	2,587	2,118	2,633	2,024	7,445	7,506
College:						
Hardbound	14,538	50,241	19,554	81,377	24,106	127,177
Paperbound	1,280	1,484	3,095	2,767	9,055	13,694
Textbooks, not classified by kind	(X)	(X)	(X)	(X)	(X)	3,113
Workbooks, paperbound	169,373	126,902	176,572	140,300	76,845	46,061
Standardized tests (incl. answer sheets), paperbound	(?)	(?)	197,049	18,678	119,142	10,352
Subscription reference books, hardbound	25,860	89,825	44,870	163,560	30,367	179,380
Religious books:						
Bibles, complete editions	11,359	19,125	8,903	18,318	8,482	23,271
Testaments			10,181	4,746	6,820	3,150
Hymnals and devotionals (incl. prayer books and missals)	(NA)	13,048	5,103	8,064	4,658	8,480
Other religious books:						
Hardbound	(NA)	(NA)	9,815	15,999	15,293	28,153
Paperbound	(NA)	(?)	36,776	11,516	40,561	10,615
Religious books, not specified by kind	(X)	(X)	(X)	(X)	(X)	2,603
Technical, scientific, and professional books:						
Law books	19,217	63,635	3,702	30,400	6,498	57,384
Medical books (incl. nursing and dental subjects)			2,423	21,400	4,073	24,148
Business books			2,080	9,400	1,242	5,592
Other			15,596	48,821	29,555	68,067
General books:						
Publishers' sales of books or sheets to book clubs	(NA)	(NA)	65,180	95,684	60,960	124,751
Book club books	(?)	(?)	232,585	47,680	219,587	54,403
Wholesale paperbound books, digest size	(?)	(?)				
Adult trade books:						
Hardbound	186,314	133,117	32,298	64,660	39,963	100,711
Paperbound	188,230	136,049	5,661	5,374	48,874	34,485
Juvenile books:						
\$1.00 and over	220,114	50,835	34,321	40,218	55,050	72,678
Under \$1.00			137,750	21,114	120,520	31,257
All other books, n.e.c.:						
Hardbound	5,463	15,489	(S)	52,148	(S)	76,185
Paperbound	38,366	23,316	25,925	12,737	41,368	25,871
Pamphlets	267,088	25,094	(S)	31,118	(S)	39,597
Religious	(X)	(X)	(S)	11,668	(S)	5,040
Other	(X)	(X)	(S)	19,450	(S)	34,557
Books and pamphlets, not specified by kind	(X)	11,774	(X)	20,166	(X)	26,127
Other books and pamphlets, not specified by kind	(X)	(X)	(X)	(X)	(X)	6,605

NA Not available. S Does not meet publication standards. X Not applicable.

¹ 1964 and 1958 may not be strictly comparable since 1954 includes 4,621,000 hardbound books and \$2,805,000 receipts.

² For 1954, "educational and other standardized tests" included with "pamphlets." For 1958, copies sold and receipts excluded from the "books" totals.

³ Since these books are frequently sold direct to consumers, some publishers reported receipts on a retail basis; hence, aggregate receipts for this type of book are a combination of wholesale and retail values but do represent total receipts at publishing plant level. Also, since books in this category are typically sold on an installment plan basis, the values reported here (actual receipts during the year) may not agree with publishers' sales for same reporting period. 1958 receipts not strictly comparable with 1954 since deductions were made in 1958 for known payments for salesmen's compensation and operating expenses for sales offices and sales branches maintained to assist in door-to-door distribution. Copies sold represent number of volumes rather than sets. Also, for 1958, some dictionaries and other single volume books sold direct to the consumer were included in "All other books, n.e.c."

⁴ Excludes prayer books.

⁵ "Other religious books, paperbound" included in "All other books, n.e.c."

⁶ "Book club books" included in "Adult trade books, hardbound."

⁷ "Wholesale paperbound books" included in "Adult trade books, paperbound."

Source: Dept. of Commerce, Bureau of the Census; U.S. Census of Manufactures: 1954, Series MC-27A, 1958, Series MC(P)-27A, and 1963, Series MC63(P)-27A-3.

No. 734. NEW BOOKS AND NEW EDITIONS PUBLISHED, BY SUBJECT: 1950 TO 1964

[Includes books published in U.S. and its outlying areas. Comprises new books (those published for the first time) and new editions (those published with substantial changes in text or format). Excludes State and Federal publications; subscription books, except encyclopedias; dissertations; second, third, or fourth printings or impressions; periodicals and quarterlies; and pamphlets of under 49 pages. Beginning 1963, data not strictly comparable with earlier years because of internal shifts in classifications. See also *Historical Statistics, Colonial Times to 1967*, series R 165-167]

SUBJECT	1950	1955	1960	1963			1964		
				Total	New books	New editions	Total	New books	New editions
Total	11,022	12,589	15,012	25,784	19,057	6,727	28,451	20,542	7,909
Agriculture.....	152	168	156	286	219	67	285	206	76
Art.....	357	347	470	822	664	158	906	776	130
Biography.....	603	633	879	1,072	680	292	948	697	251
Business.....	250	312	305	523	396	127	575	411	164
Education.....	256	274	348	641	777	164	1,232	984	248
Fiction.....	1,907	2,073	2,440	3,124	1,859	1,265	3,271	1,703	1,568
General works ¹	345	387	282	577	340	231	532	361	171
History.....	516	605	865	1,324	847	477	1,558	834	724
Home economics.....	103	255	197	265	205	60	237	188	49
Juvenile.....	1,059	1,485	1,725	2,676	2,005	371	2,808	2,533	275
Language.....	148	168	228	488	334	154	801	414	387
Law.....	208	305	394	383	209	114	340	256	90
Literature.....	591	660	736	1,313	861	452	1,454	1,038	416
Medicine.....	443	534	520	1,054	752	302	1,211	876	335
Music.....	113	103	98	179	139	40	214	166	58
Philosophy, psychology.....	340	314	480	719	505	214	766	528	238
Poetry, drama.....	531	493	492	787	578	209	936	681	255
Religion.....	727	849	1,104	1,783	1,459	324	1,830	1,441	389
Science.....	705	801	1,089	2,211	1,648	563	2,738	1,923	815
Sociology, economics.....	515	520	754	2,487	1,932	555	3,272	2,445	827
Sports, recreation.....	188	200	286	568	427	141	582	452	130
Technical books.....	497	477	698	1,157	960	197	1,125	939	186
Travel.....	288	366	466	845	595	250	1,024	747	277

¹ Classified as miscellaneous through 1960.

Source: R. R. Bowker Co., New York, N.Y. In *Publishers' Weekly*.

No. 735. BOOKS AND PERIODICALS—AVERAGE RETAIL PRICES, BY SUBJECT: 1956, 1960, AND 1964

SUBJECT	AVERAGE PRICES OF BOOKS ¹			SUBJECT	AVERAGE PRICES OF PERIODICALS ²		
	1956	1960	1964		1956	1960	1964
Total	\$4.61	\$5.24	\$6.93	Total	\$4.56	\$5.32	\$6.64
Agriculture.....	5.09	(NA)	7.69	Agriculture.....	2.52	2.84	3.71
Art.....	9.97	12.61	10.68	Business and economics.....	4.64	5.34	6.26
Biography.....	4.74	4.98	6.65	Chemistry and physics.....	9.39	11.30	16.50
Business.....	6.30	6.83	9.74	Children's periodicals.....	1.85	2.06	2.60
Children's books.....	2.50	2.74	3.06	Education.....	3.74	4.19	5.00
Economics.....	5.97	6.19	7.63	Engineering.....	4.94	5.80	7.32
Education.....	4.47	4.97	5.50	Fine and applied arts.....	4.07	4.94	5.92
History.....	5.88	5.91	7.73	History.....	4.00	4.60	5.31
Law.....	7.17	8.01	9.96	Home economics.....	3.80	4.43	5.12
Literature, general.....	3.24	3.59	5.16	Industrial arts.....	4.03	4.60	6.22
Literature, fiction.....	3.28	3.59	4.14	Journalism and communications.....	3.77	4.08	4.90
Literature, poetry.....	2.05	3.31	4.11	Labor and industrial relations.....	1.98	2.26	2.66
Literature, drama.....	3.60	4.48	5.91	Law.....	4.93	5.81	7.27
Medicine.....	7.73	8.41	11.22	Library science.....	3.22	3.71	5.01
Music.....	4.56	5.56	6.98	Literature and languages.....	3.50	4.05	4.66
Religion.....	3.74	4.05	4.63	Mathematics, botany, geology, and general science.....	5.82	7.27	10.70
Science.....	8.46	10.21	10.99	Medicine.....	9.09	10.28	13.25
Sports.....	4.57	4.80	6.13	Philosophy and religion.....	3.68	4.05	4.40
Technology.....	7.52	8.89	11.02	Physical education and recreation.....	3.02	3.47	3.94
				Political science.....	4.05	4.77	5.33
				Psychology.....	8.27	9.57	11.82
				Sociology and anthropology.....	3.72	4.52	5.07
				Zoology.....	7.01	8.90	9.83
				General interest periodicals.....	4.63	5.19	5.85

NA. Not available.

¹ Excludes paperback books, textbooks, government documents, and encyclopedias. Refers to books published in year stated.

² Average annual subscription prices.

Source: 1956 and 1960, Dept. of Health, Education, and Welfare, Office of Education; *The Cost of Library Materials: Price Trends of Publications*, Circular OE-15029A. 1964, average prices of books, R. R. Bowker Co., New York, N.Y., *Publishers' Weekly*, January 18, 1965; and 1964, average prices of periodicals, American Library Association, *Library Journal*, July 1964.

No. 736. BOOKS—IMPORTS AND TRANSLATIONS INTO ENGLISH: 1963 AND 1964

[For 1963 imports defined to cover only those books conceived, manufactured, and originally published abroad and distributed in U.S. by exclusive agreement. Data for 1964 not comparable because imports defined to cover all books printed abroad and distributed in U.S. on exclusive basis. See also headnote, table 734]

SUBJECT	IMPORTS						LANGUAGE	TRANSLATIONS	
	1963			1964				1963	1964
	Total	New books	New editions	Total	New books	New editions			
Total.....	2,161	1,778	383	4,797	3,954	843	Total.....	1,580	1,876
Agriculture.....	61	49	12	89	77	12	French.....	389	484
Art.....	139	123	16	388	358	30	German.....	307	361
Biography.....	68	58	10	175	141	34	Italian.....	50	70
Business.....	12	10	2	40	34	6			
Education.....	43	38	5	61	48	13	Oriental.....	48	92
Fiction.....	49	24	25	110	56	54	Russian.....	102	250
General works.....	30	24	6	71	57	14	Scandinavian.....	45	87
History.....	112	87	25	260	191	69	Spanish.....	49	56
Home economics.....	22	16	6	23	18	5			
Juvenile.....	70	59	11	239	228	11	Other.....	530	506
Language.....	58	37	21	158	94	64			
Law.....	40	33	7	46	34	12			
Literature.....	90	62	28	275	217	58			
Medicine.....	140	118	22	310	248	62			
Music.....	26	21	5	51	42	9			
Philosophy.....	49	41	8	131	99	32			
Poetry, drama.....	69	54	15	148	112	36			
Religion.....	109	94	15	279	226	53			
Science.....	287	248	39	678	572	106			
Sociology, economics.....	295	248	47	528	462	66			
Sports, recreation.....	75	64	11	147	127	20			
Technical books.....	179	160	23	305	270	35			
Travel.....	138	114	24	285	243	42			

Source: R. R. Bowker Co., New York, N.Y.; *Publishers' Weekly*, January 18, 1965.

No. 737. REGISTRATION OF COPYRIGHTS, BY SUBJECT MATTER: 1950 TO 1964

[For years ending June 30. Data comprise copyrights issued to citizens of the United States and residents of foreign countries. For information on patents, see table 768. See also *Historical Statistics, Colonial Times to 1967*, series W 52-55]

SUBJECT MATTER OF COPYRIGHT	1950	1955	1960	1962	1963	1964
Total.....	210,564	224,732	243,926	254,776	264,845	278,987
Books.....	50,456	54,414	60,034	66,671	68,445	71,757
Manufactured in the United States.....	45,706	49,142	55,713	61,787	63,936	66,789
Manufactured abroad in a foreign language.....	3,710	3,694	3,740	4,007	3,764	4,079
English-language books registered ad interim.....	1,040	1,578	581	777	745	889
Contributions to newspapers and periodicals.....	4,438	3,746	3,306	2,093	2,535	2,529
Periodicals.....	55,436	59,448	64,204	67,523	69,682	74,472
Lectures, sermons, addresses.....	1,007	813	835	875	806	1,112
Dramatic or dramatico-musical compositions.....	4,427	3,493	2,445	2,813	2,780	3,039
Musical compositions.....	52,309	57,627	65,588	67,612	72,583	75,256
Maps.....	1,638	2,013	1,812	2,073	2,002	1,955
Works of art.....	4,013	3,456	5,271	6,043	6,262	5,915
Reproductions of works of art.....	326	900	2,516	3,726	4,003	4,045
Drawings or plastic works of a scientific or technical character.....	1,316	1,350	768	1,014	780	893
Photographs.....	1,143	1,105	842	562	725	995
Prints and pictorial illustrations.....	4,309	3,793	3,343	2,889	2,594	3,325
Commercial prints and labels.....	13,320	10,505	8,142	7,167	7,318	7,013
Motion picture photoplays.....	782	1,216	2,755	2,686	3,207	3,018
Motion pictures not photoplays.....	1,113	1,434	702	955	1,009	1,080
Renewals of all classes.....	14,531	19,519	21,393	19,274	20,164	22,574

Source: The Library of Congress; *Annual Report*.

Section 19

Power

This section presents statistics on the supply, production, and distribution of power and energy. The principal sources of these data are the Federal Power Commission and the American Gas Association.

The Federal Power Commission publishes various statistical reports containing information on the electric power and natural gas industries. At periodic intervals it issues publications containing information on the production of electricity, capacity of generating plants (industrial plants as well as utilities), fuels used in production, financial data, sales of electric energy, construction costs and production expenses of steam electric and hydroelectric plants, financial and operating statistics on both the electric and interstate gas pipeline utilities, hydroelectric power resources of the United States, sales by producers of natural gas to interstate gas pipeline companies, and depreciation practices of electric and interstate gas pipeline utilities.

The Commission also issues periodic reports on electric utility rates, including the national electric rate book, typical electric bills, and annual bills for all-electric homes. Maps showing principal natural gas pipelines and principal electric facilities in the United States are published from time to time. Other publications relate to the statutes and regulations administered by the Commission.

The American Gas Association, in its monthly and quarterly bulletins and its year-book, *Gas Facts*, presents data on natural gas utilization and on production of gas from coal, oil, and similar products. Other important sources include the Bureau of Mines' *Minerals Yearbook*, containing data on coal, oil, and natural gas production and utilization; and the Edison Electric Institute's monthly and annual *Statistical Bulletin*, containing data on the distribution of electric energy by public utilities.

Alaska and Hawaii.—Statements specifying inclusion or exclusion of figures for Alaska and Hawaii appear in the headnotes to each table unless the inclusion or exclusion is self-evident.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1957*. See preface.

No. 738. TOTAL HORSEPOWER OF ALL PRIME MOVERS: 1940 TO 1964

[In thousands. As of January, except as noted. Beginning 1960, includes Alaska and Hawaii, except as noted. Prime movers are mechanical engines and turbines, and work animals, which originally convert fuels or force (as wind or falling water) into work and power. Electric motors, which are secondary movers and obtain their power from prime movers, are excluded to avoid duplication. See also *Historical Statistics, Colonial Times to 1957*, series S 1-14]

ITEM	1940	1950	1955	1960	1963	1964 (prel.)
Total horsepower	2, 773, 316	4, 854, 105	7, 117, 669	10, 965, 579	13, 413, 072	14, 240, 496
Work animals.....	12, 510	7, 040	4, 141	2, 790	2, 500	2, 250
Inanimate.....	2, 760, 806	4, 847, 065	7, 113, 528	10, 962, 789	13, 410, 572	14, 238, 246
Automotive ¹ 2.....	2, 611, 812	4, 403, 617	6, 632, 121	10, 366, 880	12, 713, 712	13, 512, 653
Nonautomotive.....	249, 494	443, 448	481, 407	595, 909	696, 860	725, 593
Factories.....	21, 768	32, 921	35, 579	42, 000	45, 770	47, 000
Mines.....	7, 332	9, 167	30, 768	34, 700	37, 000	37, 700
Railroads.....	92, 961	110, 969	60, 304	46, 866	46, 390	46, 548
Merchant ships, powered ³	9, 408	23, 423	24, 155	23, 890	23, 890	23, 715
Sailing vessels ⁴	26	11	5	2	2	2
Farms ⁵	57, 472	160, 933	167, 182	194, 710	217, 928	228, 330
Windmills.....	130	69	69	44	37	33
Electric central stations ⁶	53, 542	87, 965	137, 576	217, 173	273, 085	287, 111
Aircraft ⁷	7, 465	22, 000	25, 779	36, 554	52, 758	55, 154

¹ Includes passenger cars, trucks, buses, and motorcycles. ² As of July 1. ³ Includes Alaska and Hawaii.

⁴ Excludes horses and other work animals, which are included with "Work animals."

⁵ Includes private planes and commercial airliners.

Source: The Twentieth Century Fund, J. F. Dewhurst and Associates, *America's Needs and Resources, A New Survey*; John A. Waring, *Transactions of Canadian Sectional Meeting, World Power Conference, 1958*; and unpublished estimates by John A. Waring.

No. 739. MINERAL FUELS AND WATER POWER—PRODUCTION AND CONSUMPTION, BY SOURCE: 1930 TO 1964

[In trillions of British thermal units except percent. Beginning 1959, includes Alaska, and 1960, Hawaii. Data for bituminous coal include Alaska for all years. Unit heat values used are: Anthracite, 12,700 B.t.u. per pound; bituminous coal and lignite, 13,100 B.t.u. per pound; petroleum, 5,800,000 B.t.u. per barrel; natural gas, total production multiplied by 1,075 B.t.u. minus repressuring vent and waste gas multiplied by 1,035. Water power includes installations owned by manufacturing plants and mines, as well as Government and privately owned public utilities. Fuel equivalent of water power calculated from kilowatt-hours of power produced wherever available, as is true of all public utility plants since 1919. Otherwise, fuel equivalent calculated from reported horsepower of installed water wheels, assuming capacity factor of 20 percent for factories and mines. See also *Historical Statistics, Colonial Times to 1957*, series M 71-87]

YEAR	Total	COAL		Crude petroleum ¹	Natural gas ²	Water power	PERCENT				
		Anthracite	Bituminous and lignite				Coal		Crude petroleum ¹	Natural gas ²	Water power
							Anthracite	Bituminous and lignite			
PRODUCTION											
1930.....	22,119	1,762	12,249	5,208	2,148	752	8.0	55.4	23.5	9.7	3.4
1940.....	25,088	1,308	12,072	7,849	2,979	880	5.2	48.1	31.3	11.9	3.5
1950.....	34,510	1,120	13,627	11,449	6,841	1,573	3.2	39.2	33.2	19.8	4.6
1955.....	38,900	665	12,174	14,410	10,204	1,447	1.7	31.3	37.1	26.2	3.7
1959.....	40,937	524	10,795	14,933	13,036	1,649	1.3	26.4	36.5	31.8	4.0
1960.....	41,844	478	10,886	14,935	13,822	1,723	1.2	26.0	35.7	33.0	4.1
1961.....	42,295	443	10,558	15,206	14,336	1,752	1.1	25.0	35.9	33.9	4.1
1962.....	43,926	429	11,034	15,522	15,004	1,937	1.0	25.1	35.3	34.1	4.4
1963.....	46,296	404	12,024	15,966	15,941	1,901	1.0	25.9	34.5	34.4	4.1
1964 (prel.).....	48,012	417	12,628	16,270	16,679	2,018	0.9	26.3	33.8	34.7	4.2
CONSUMPTION											
1930.....	22,288	1,718	11,921	5,652	2,212	785	7.7	53.5	25.4	9.9	3.5
1940.....	23,908	1,245	11,200	7,487	2,969	917	5.2	47.2	31.4	12.4	3.8
1950.....	34,163	1,013	11,900	12,706	6,933	1,601	3.0	34.8	37.2	20.3	4.7
1955.....	39,956	599	11,104	16,328	10,428	1,497	1.5	27.8	40.8	26.1	3.8
1959.....	43,507	478	9,596	18,399	13,339	1,995	1.1	22.0	42.3	30.7	3.9
1960.....	44,060	447	9,967	18,008	14,163	1,775	1.0	22.2	41.4	31.5	3.9
1961.....	45,705	404	9,800	18,989	14,726	1,777	0.9	21.5	41.5	32.2	3.9
1962.....	47,760	363	10,160	19,662	15,632	1,943	0.8	21.2	41.1	32.7	4.1
1963.....	49,725	361	10,722	20,231	16,511	1,800	0.7	21.6	40.6	33.2	3.8
1964 (prel.).....	51,821	348	11,292	20,819	17,338	2,024	0.7	21.8	40.1	33.4	3.9

¹ Includes commingled condensate. Beginning 1950, consumption includes petroleum products (net imports)*

² Marketed production; includes amount stored and lost in transmission. Consumption includes dry and liquid gas.

Source: Dept. of the Interior, Bureau of Mines; *Minerals Yearbook*. Current data in *Mineral Industry Surveys*.

No. 740. UTILITY ELECTRIC ENERGY USE, 1960 TO 1963, AND PROJECTED REQUIREMENTS, 1965 TO 1980

[Includes Alaska and Hawaii. Excludes generation by industrial facilities and railways having generating facilities of their own]

YEAR	ENERGY USE				PEAK LOAD		
	Billion kw.-hr.	Percent increase		Million kw.	Percent increase		
		From 1960	For each interval		From 1960	For each interval	
1960.....	763.5	(X)	(X)	138.4	(X)	(X)	
1961.....	799.7	4.7	4.7	145.0	4.8	4.8	
1962.....	860.6	12.7	7.6	157.6	13.9	8.7	
1963.....	921.0	20.6	7.0	167.7	21.2	6.4	
1965.....	1,065.5	39.6	15.7	194.4	40.5	15.9	
1970.....	1,488.6	95.0	39.7	271.1	95.9	39.5	
1975.....	2,030.6	166.0	36.4	371.0	168.1	36.8	
1980.....	2,701.6	253.8	33.0	495.0	287.7	33.4	

X Not applicable.

Source: Federal Power Commission; unpublished data.

**No. 741. ELECTRIC ENERGY PRODUCTION AND INSTALLED GENERATING CAPACITY,
BY CLASS OF OWNERSHIP AND TYPE OF PRIME MOVER: 1940 TO 1964**

[Production for years ending December 31; other data as of December 31. Beginning 1963, includes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1967*, series S 15-35 and S 44-69]

ITEM	1940	1945	1950	1955	1960	1962	1963	1964 (prel.)
Production (mil. kw.-hr.) -----	179,907	271,255	388,674	629,010	841,616	943,482	1,011,417	1,082,422
Industrial plants ¹ -----	38,070	48,769	59,533	81,972	88,266	91,168	94,624	99,691
Electric utilities (for public use)-----	141,837	222,486	329,141	547,038	753,350	852,314	916,793	982,732
By class of ownership:								
Privately owned-----	125,411	180,926	266,860	420,869	578,600	651,016	701,253	755,752
Percent of utility production-----	88.4	81.3	81.1	76.9	76.8	76.4	70.5	76.9
Publicly owned-----	16,426	41,560	62,281	126,169	174,750	201,298	215,540	226,980
Municipal-----	6,188	9,624	15,244	25,852	36,924	41,687	46,292	50,226
Federal-----	8,584	28,001	40,388	89,064	112,321	116,776	124,340	129,925
Cooperatives, power districts, State projects-----	1,175	3,146	5,793	11,253	25,505	43,834	44,908	46,829
Noncentral stations-----	479	790	857	(?)	(?)	(?)	(?)	(?)
By source of energy (percent):								
Coal ² -----	54.6	51.7	47.1	55.1	53.6	53.1	54.2	53.9
Oil-----	4.4	3.5	10.3	6.8	6.1	5.5	5.7	5.8
Gas-----	7.7	8.9	13.5	17.4	21.0	21.6	22.0	22.4
Hydro-----	33.4	35.9	29.2	20.7	19.3	19.7	18.1	17.9
Installed capacity (1,000 kw.) -----	50,962	62,868	82,850	130,896	185,815	208,741	228,757	239,814
Industrial plants ¹ -----	11,035	12,757	13,931	16,424	17,813	17,674	18,208	18,247
Electric utilities (for public use)-----	39,927	50,111	68,919	114,472	168,002	191,067	210,549	221,567
By class of ownership:								
Privately owned-----	34,399	40,307	55,176	80,887	128,450	144,577	158,448	167,487
Percent of utility capacity-----	86.2	80.4	80.1	75.9	76.5	75.7	75.3	75.6
Publicly owned-----	5,528	9,804	13,743	27,585	39,552	46,490	52,101	54,080
Municipal-----	2,977	3,586	4,970	7,795	11,499	12,929	14,222	14,984
Federal-----	1,944	6,081	6,921	16,962	22,350	24,315	27,315	28,230
Cooperatives, power districts, State projects-----	435	891	1,538	2,828	5,703	9,247	10,565	10,805
Noncentral stations-----	173	245	314	(?)	(?)	(?)	(?)	(?)
TYPE OF PRIME MOVER								
Electric utilities (for public use):								
Number of plants, total ⁴ -----	3,918	3,886	3,867	3,587	3,435	3,373	3,402	3,380
Hydro-----	1,474	1,505	1,458	1,381	1,331	1,288	1,284	1,271
Steam-----	1,153	1,057	1,051	1,045	1,080	1,056	1,074	1,075
Internal combustion-----	1,291	1,324	1,358	1,161	1,044	1,029	1,044	1,034
Production (mil. kw.-hr.)-----	141,837	222,486	329,141	547,038	753,350	852,314	916,793	982,732
Hydro-----	47,321	79,970	95,938	112,075	145,616	168,283	165,755	176,266
Steam-----	93,002	140,435	229,543	430,119	608,342	679,226	745,982	806,466
Internal combustion-----	1,514	2,081	3,660	3,044	4,402	4,806	5,047	
Installed capacity (1,000 kw.)-----	39,927	50,111	68,919	114,472	168,002	191,067	210,549	221,567
Hydro-----	11,224	14,912	17,075	25,004	32,367	37,342	40,214	41,961
Steam-----	27,776	34,113	49,333	87,112	132,818	150,077	167,090	179,307
Internal combustion-----	928	1,087	1,911	2,355	2,817	3,049	3,245	3,299
Production per kilowatt of installed capacity, utilities only (kw.-hr.) ⁵ -----	3,552	4,440	4,776	4,770	4,484	4,461	4,354	4,435

¹ Comprises production and capacity of industrial electric powerplants of 100 kilowatts and over, including amounts for stationary electric powerplants of railroads and railways.

² Distributed to other publicly owned classes.

³ Includes small percentage from wood and waste and also, in past few years, from nuclear fuel.

⁴ Each prime mover type in combination plants counted separately.

⁵ Capacity in service at end of year.

Source: Federal Power Commission; annual summaries, industrial electric power summaries, related monthly reports, and unpublished data.

No. 742. ELECTRIC UTILITIES—SUPPLY SYSTEMS, UTILITIES, AND GENERATING PLANTS, BY CLASS OF OWNERSHIP: 1945 TO 1963

[As of December 31. Beginning 1963, includes Alaska and Hawaii. Duplications of establishments operating in two or more States have been eliminated. Each type of prime mover in combination generating plants counted separately; nonutility generating plants producing primarily for industrial use are excluded]

ITEM	Total, all classes	Pri- vately owned	Cooper- atively owned	PUBLICLY OWNED			
				Total	Munici- pal	Federal	Other ¹
1945: Total electric supply systems.....	4,051	1,060	800	2,191	2,092	74	25
Utilities with generating plants.....	1,594	402	83	1,019	990	18	11
Number of generating plants.....	3,886	2,400	142	1,344	1,157	86	101
1950: Total electric supply systems.....	4,007	821	963	2,223	2,077	55	91
Utilities with generating plants.....	1,495	303	92	1,010	955	13	42
Number of generating plants.....	3,867	2,334	166	1,367	1,136	83	148
1955: Total electric supply systems.....	3,648	581	950	2,117	1,968	57	92
Utilities with generating plants.....	1,315	315	78	922	885	9	48
Number of generating plants.....	3,587	2,108	146	1,338	1,068	129	141
1960: Total electric supply systems.....	3,637	496	965	2,176	2,026	43	107
Utilities with generating plants.....	1,198	270	68	860	802	6	52
Number of generating plants.....	3,435	2,000	132	1,303	1,017	142	144
1963: Utilities with generating plants.....	1,209	267	77	865	808	8	49
Number of generating plants.....	3,402	1,914	159	1,329	1,051	149	129

¹ Public utility districts and State projects.

Source: Federal Power Commission; annual summaries.

No. 743. ELECTRIC ENERGY—SALES, BY GEOGRAPHIC DIVISION AND CLASS OF SERVICE: 1950 TO 1963

[In millions of kilowatt-hours. Excludes Alaska and Hawaii. For States comprising each division, see table 744]

DIVISION AND CLASS	1950	1960	1962	1963	DIVISION AND CLASS	1950	1960	1962	1963
United States	290,897	686,493	775,381	830,079	South Atlantic	36,218	90,950	106,605	115,199
Residential.....	72,200	200,768	231,962	249,814	Residential.....	9,092	30,305	35,856	39,076
Commercial.....	52,091	132,862	152,665	163,740	Commercial.....	6,954	18,781	22,621	24,569
Industrial.....	144,479	321,332	358,998	382,685	Industrial.....	18,706	39,046	44,591	47,617
Other.....	22,127	31,471	31,766	33,841	Other.....	1,466	2,868	3,637	3,937
New England	14,083	26,921	30,482	32,181	East South Central	23,393	88,018	92,473	97,492
Residential.....	3,938	9,597	10,829	11,648	Residential.....	5,234	17,662	20,530	21,976
Commercial.....	2,620	5,841	6,564	7,056	Commercial.....	2,238	6,307	7,213	7,789
Industrial.....	7,085	10,861	12,124	12,562	Industrial.....	14,582	62,302	62,773	65,621
Other.....	439	822	965	1,015	Other.....	1,338	1,747	1,956	2,106
Middle Atlantic	59,430	103,228	118,791	125,798	West South Central	19,412	58,086	69,722	77,277
Residential.....	12,302	28,069	32,168	34,175	Residential.....	4,472	18,041	22,604	25,067
Commercial.....	11,826	24,290	21,552	22,934	Commercial.....	4,310	12,885	16,014	17,623
Industrial.....	30,008	43,142	57,443	60,823	Industrial.....	9,379	24,651	28,328	30,725
Other.....	5,293	7,127	7,628	7,866	Other.....	1,250	2,508	2,777	3,272
East North Central	65,298	149,402	164,815	175,239	Mountain	10,694	30,865	36,061	38,994
Residential.....	16,202	41,152	46,054	48,452	Residential.....	2,920	8,408	9,851	10,524
Commercial.....	9,789	25,049	28,464	30,048	Commercial.....	1,916	5,649	7,015	8,861
Industrial.....	34,880	77,163	83,536	89,547	Industrial.....	4,363	13,187	15,781	16,572
Other.....	4,337	6,038	6,761	7,192	Other.....	1,495	3,622	2,514	2,737
West North Central	18,793	42,210	48,299	52,447	Pacific	43,576	96,814	105,133	115,453
Residential.....	6,770	17,971	20,528	22,185	Residential.....	11,180	28,992	33,542	35,922
Commercial.....	3,943	9,097	10,905	11,870	Commercial.....	8,493	25,243	31,458	32,992
Industrial.....	6,948	13,861	15,432	16,906	Industrial.....	18,527	37,119	38,989	42,311
Other.....	1,132	1,280	1,374	1,486	Other.....	5,377	5,459	4,144	4,228

Source: Federal Power Commission; *Annual Report*, 1964.

No. 744. ELECTRIC UTILITIES—INSTALLED GENERATING CAPACITY AND ELECTRIC ENERGY PRODUCTION, BY STATES: 1950 TO 1963

[Installed capacity as of December 31; production for years ending December 31]

STATE	INSTALLED CAPACITY (1,000 kw.)				ENERGY PRODUCTION (mil. kw.-hr.)			
	1950	1955	1960	1963	1950	1955	1960	1963
United States¹	68,919	114,472	168,568	210,549	329,141	547,038	755,375	916,793
New England	4,052	5,271	7,045	7,931	16,211	22,610	28,808	33,594
Maine.....	415	623	743	754	1,680	2,405	2,966	3,255
New Hampshire.....	398	474	762	763	1,329	1,718	2,188	2,590
Vermont.....	204	261	261	283	735	981	842	729
Massachusetts.....	1,653	2,167	2,671	3,538	6,588	9,461	13,309	15,821
Rhode Island.....	359	401	427	424	1,556	1,955	1,699	1,454
Connecticut.....	1,022	1,345	1,880	2,170	4,223	6,091	7,804	9,746
Middle Atlantic	13,225	18,218	25,536	31,585	63,372	86,140	112,749	137,165
New York.....	6,287	8,469	11,821	10,107	29,452	39,533	51,897	65,405
New Jersey.....	2,053	2,914	4,538	5,359	9,921	12,806	17,730	22,238
Pennsylvania.....	4,916	6,835	9,178	10,120	24,000	34,301	43,122	49,522
East North Central	16,083	25,976	36,780	42,585	75,349	125,853	165,101	191,322
Ohio.....	4,430	7,459	10,612	11,919	21,967	35,955	49,489	54,441
Indiana.....	2,142	4,351	6,566	7,533	10,374	21,193	30,966	36,548
Illinois.....	4,506	6,955	9,354	11,072	20,086	35,997	43,085	48,991
Michigan.....	3,222	4,590	6,758	8,068	15,316	22,365	27,672	34,952
Wisconsin.....	1,783	2,622	3,490	3,993	7,006	10,343	13,888	16,890
West North Central	5,024	7,930	11,538	14,879	19,237	30,463	43,734	56,447
Minnesota.....	1,151	1,764	2,434	2,599	4,540	6,642	9,613	11,956
Iowa.....	1,173	1,554	2,011	2,322	4,428	6,212	7,927	8,771
Missouri.....	958	1,743	2,697	3,805	3,718	6,952	10,552	14,487
North Dakota.....	187	264	666	738	660	963	1,780	2,190
South Dakota.....	160	491	545	1,173	536	1,399	1,700	3,467
Nebraska.....	672	762	1,224	1,687	2,011	2,816	4,351	5,423
Kansas.....	814	1,353	1,060	2,594	3,335	5,478	7,810	10,153
South Atlantic	8,857	15,131	22,696	29,308	43,604	71,220	103,636	129,380
Delaware.....	28	224	425	572	20	1,366	2,262	2,884
Maryland.....	1,099	1,373	2,077	2,099	5,040	5,845	9,240	12,496
District of Columbia.....	508	533	533	537	1,069	1,627	976	708
Virginia.....	1,204	1,931	3,570	4,548	6,233	9,380	18,285	21,912
West Virginia.....	1,266	2,177	3,217	3,140	7,821	14,239	14,013	18,210
North Carolina.....	1,760	3,505	4,397	5,750	9,829	15,592	20,000	24,937
South Carolina.....	847	1,652	2,249	2,554	2,910	5,870	10,238	11,548
Georgia.....	1,156	1,675	2,236	3,306	5,235	7,705	10,655	11,985
Florida.....	999	2,002	3,002	6,193	4,847	9,593	17,967	24,691
East South Central	4,464	11,657	16,614	21,626	24,606	66,530	87,691	103,068
Kentucky.....	904	2,745	3,362	5,676	4,390	17,693	19,899	25,798
Tennessee.....	1,670	4,628	7,521	7,850	9,379	24,625	40,071	39,733
Alabama.....	1,600	3,654	4,700	6,881	9,577	21,348	24,694	33,188
Mississippi.....	200	631	1,032	1,218	1,260	2,864	3,127	4,340
West South Central	4,717	9,449	16,401	21,702	22,515	40,823	64,608	85,350
Arkansas.....	450	1,165	1,188	1,744	1,075	4,909	5,244	5,995
Louisiana.....	909	1,694	2,934	3,923	4,936	6,677	11,865	14,835
Oklahoma.....	723	1,260	2,225	2,777	2,927	5,337	8,299	11,167
Texas.....	2,636	6,430	10,054	13,259	12,676	23,900	39,200	53,363
Mountain	3,445	6,106	8,700	10,963	16,497	24,155	36,611	42,366
Montana.....	442	925	1,353	1,397	3,136	4,696	5,992	6,594
Idaho.....	445	781	1,255	1,254	2,538	3,907	6,165	5,978
Wyoming.....	139	236	382	683	595	724	1,688	3,146
Colorado.....	464	959	1,317	1,653	1,856	3,719	5,571	6,749
New Mexico.....	281	459	802	1,351	1,014	1,765	3,041	4,952
Arizona.....	843	1,626	2,266	2,843	3,499	5,535	8,562	9,603
Utah.....	235	523	606	765	659	2,377	3,038	2,562
Nevada.....	596	597	720	1,017	3,210	1,431	2,655	2,811
Pacific¹	9,054	14,733	23,256	29,970	47,751	79,245	112,437	138,070
Washington.....	2,765	4,074	7,215	9,224	17,371	24,030	34,153	42,928
Oregon.....	973	2,046	2,614	2,918	5,545	12,703	12,425	13,600
California.....	5,316	8,612	12,862	17,047	24,836	42,512	63,834	78,870
Alaska.....	(NA)	(NA)	117	180	(NA)	(NA)	359	532
Hawaii.....	(NA)	(NA)	449	600	(NA)	(NA)	1,666	2,141

NA Not available. ¹ Beginning 1960, includes Alaska and Hawaii.

Source: Federal Power Commission; annual summaries and related monthly reports.

No. 745. ELECTRIC UTILITIES AND INDUSTRIAL PLANTS—INSTALLED GENERATING CAPACITY, BY TYPE OF PRIME MOVER AND CLASS OF OWNERSHIP, BY STATES: 1963

[In thousands of kilowatts. As of December 31]

STATE	Total	TYPE OF PRIME MOVER				CLASS OF OWNERSHIP OF ELECTRIC UTILITIES				Industrial plants
		Electric utilities and industrial		Electric utilities		Total	Investor-owned	Noninvestor-owned		
		Fuel	Hydro	Fuel	Hydro			Municipal	Other ¹	
United States.....	228,757	187,829	40,928	170,335	40,214	210,549	158,448	14,222	37,880	18,208
New England.....	9,078	7,576	1,502	6,682	1,249	7,931	7,663	230	38	1,147
Maine.....	1,125	630	495	404	350	754	733	4	17	371
New Hampshire.....	846	403	442	366	396	763	759	4	—	83
Vermont.....	305	107	198	98	185	283	268	16	—	22
Massachusetts.....	4,015	3,791	224	3,356	182	3,638	3,372	157	9	477
Rhode Island.....	449	445	3	422	2	424	418	2	5	25
Connecticut.....	2,339	2,199	139	2,036	133	2,170	2,113	49	8	169
Middle Atlantic.....	33,673	29,196	4,477	27,180	4,405	31,585	28,200	252	3,133	2,087
New York.....	19,617	12,583	4,034	12,139	3,968	16,107	12,880	104	3,123	510
New Jersey.....	5,667	5,069	8	5,353	6	5,359	5,297	59	2	309
Pennsylvania.....	11,389	10,955	434	9,689	431	10,120	10,022	90	8	1,269
East North Central.....	46,948	46,042	906	41,772	813	42,585	39,865	2,179	541	4,362
Ohio.....	13,170	13,167	3	11,917	2	11,919	11,317	587	14	1,252
Indiana.....	8,400	8,371	29	7,503	29	7,533	7,208	325	—	868
Illinois.....	11,720	11,679	41	11,034	39	11,072	10,565	363	144	648
Michigan.....	9,274	8,867	407	7,698	370	8,068	7,211	748	109	1,206
Wisconsin.....	4,383	3,959	424	3,621	373	3,993	3,563	156	274	389
West North Central.....	15,676	12,983	2,693	12,228	2,651	14,879	9,256	2,305	3,318	797
Minnesota.....	3,044	2,861	183	2,440	160	2,599	2,081	420	97	445
Iowa.....	2,456	2,318	138	2,184	138	2,322	1,773	370	180	134
Missouri.....	3,982	3,182	801	3,065	801	3,865	3,072	457	337	117
North Dakota.....	753	353	400	338	400	738	247	17	475	16
South Dakota.....	1,138	256	926	255	918	1,173	215	41	918	10
Nebraska.....	1,593	1,355	238	1,349	238	1,587	—	335	1,261	7
Kansas.....	2,664	2,658	6	2,588	6	2,594	1,869	665	60	70
South Atlantic.....	32,441	27,776	4,665	24,823	4,486	29,308	25,933	1,509	1,866	3,133
Delaware.....	609	609	—	572	—	572	519	53	—	37
Maryland.....	2,940	2,688	272	2,428	271	2,699	2,032	60	7	241
Dist. of Columbia.....	549	546	3	534	3	537	534	—	3	13
Virginia.....	5,016	4,599	418	4,182	396	4,548	4,259	57	232	468
West Virginia.....	4,139	3,930	208	3,038	102	3,140	3,140	—	—	999
North Carolina.....	6,014	4,322	1,692	4,080	1,079	5,759	5,281	116	361	256
South Carolina.....	3,007	2,046	961	1,618	936	2,554	1,981	5	568	453
Georgia.....	3,651	2,582	1,069	2,260	1,067	3,306	2,669	16	622	345
Florida.....	6,516	6,474	42	6,161	42	6,193	4,918	1,202	74	322
East South Central.....	22,578	18,268	4,311	17,323	4,303	21,626	6,871	981	13,774	953
Kentucky.....	5,711	5,170	541	5,136	541	5,676	2,060	82	3,534	35
Tennessee.....	8,292	6,370	1,921	5,929	1,921	7,850	172	798	6,881	441
Alabama.....	7,264	5,415	1,849	5,041	1,841	6,881	3,522	(Z)	3,359	383
Mississippi.....	1,312	1,312	—	1,218	—	1,218	1,117	101	—	94
West South Central.....	25,744	24,620	1,124	20,578	1,124	21,702	17,960	2,246	1,497	4,041
Arkansas.....	2,051	1,482	568	1,175	568	1,744	1,101	83	559	307
Louisiana.....	5,091	5,091	—	3,923	—	3,923	3,535	387	—	1,108
Oklahoma.....	2,822	2,657	165	2,612	165	2,777	2,333	153	291	45
Texas.....	15,779	15,389	390	12,869	390	13,259	10,990	1,622	647	2,521
Mountain.....	11,753	6,901	4,852	6,113	4,850	10,963	7,016	375	3,572	790
Montana.....	1,404	143	1,262	136	1,262	1,397	897	—	500	7
Idaho.....	1,293	43	1,250	4	1,249	1,254	1,032	13	209	39
Wyoming.....	710	498	213	471	213	683	463	2	219	27
Colorado.....	1,754	1,488	266	1,387	266	1,653	1,166	222	265	101
New Mexico.....	1,443	1,423	25	1,326	25	1,351	1,150	79	122	97
Arizona.....	3,069	2,080	980	1,663	980	2,643	1,353	2	1,488	227
Utah.....	1,011	838	174	592	173	765	619	55	91	245
Nevada.....	1,063	380	683	335	682	1,017	337	1	679	46
Pacific.....	30,866	14,467	16,399	13,635	16,334	29,970	15,684	4,145	10,140	897
Washington.....	9,543	535	9,008	243	8,981	9,224	8,981	1,093	7,011	319
Oregon.....	3,094	383	2,742	197	2,721	2,918	978	143	1,797	176
California.....	17,295	12,749	4,545	12,504	4,543	17,047	12,987	2,814	1,246	247
Alaska.....	228	142	85	95	85	180	27	68	85	48
Hawaii.....	706	688	19	597	3	600	600	—	—	106

- Entry represents zero. Z Less than 500 kw.

¹ Includes Federal, State, public utility districts, and cooperatives.

Source: Federal Power Commission; annual summaries and related monthly reports.

No. 746. ELECTRIC ENERGY—PRODUCTION BY ELECTRIC UTILITIES AND INDUSTRIAL PLANTS, BY TYPE OF PRIME MOVER AND CLASS OF OWNERSHIP, BY STATES: 1963

[In millions of kilowatt-hours. For year ending December 31]

STATE	Total	TYPE OF PRIME MOVER				CLASS OF OWNERSHIP OF ELECTRIC UTILITIES				Industrial plants
		Electric utilities and industrial		Electric utilities		Total	In-vestor-owned	Noninvestor-owned		
		Fuel	Hydro	Fuel	Hydro			Municipal	Other ¹	
United States..	1,011,417	842,427	168,990	751,038	165,755	916,793	701,253	46,292	169,247	94,624
New England.....	37,544	31,772	5,773	29,143	4,451	33,594	32,797	645	153	3,950
Maine.....	5,195	2,357	2,837	1,339	1,916	3,255	3,186	17	52	1,940
New Hampshire.....	2,969	1,685	1,284	1,534	1,056	2,590	2,579	11	-	379
Vermont.....	797	107	690	94	635	729	686	43	-	60
Massachusetts.....	16,830	16,131	699	15,225	596	15,821	15,301	480	34	1,009
Rhode Island.....	1,535	1,532	4	1,451	3	1,454	1,413	2	39	81
Connecticut.....	10,218	9,959	259	9,499	246	9,746	9,632	86	27	472
Middle Atlantic.....	146,340	125,694	20,646	116,818	20,347	137,165	120,395	741	16,030	9,175
New York.....	67,766	48,415	19,350	46,335	19,071	65,405	49,087	309	16,009	2,360
New Jersey.....	23,480	23,464	16	22,227	10	22,238	22,057	176	5	1,242
Pennsylvania.....	55,094	53,814	1,280	48,256	1,266	49,522	49,251	255	15	5,572
East North Central...	211,835	208,695	3,140	188,562	2,760	191,322	183,277	6,047	1,998	20,514
Ohio.....	60,530	60,521	8	54,441	-	64,441	62,749	1,624	68	6,088
Indiana.....	40,552	40,501	52	36,496	52	36,548	35,657	891	-	4,004
Illinois.....	51,926	51,750	176	48,836	155	48,991	47,890	963	137	2,935
Michigan.....	40,635	39,272	1,362	33,705	1,246	34,952	32,214	2,180	557	5,683
Wisconsin.....	18,193	16,651	1,542	15,083	1,307	16,390	14,765	389	1,236	1,803
West North Central...	60,537	53,135	7,402	49,229	7,218	56,447	39,505	5,361	11,582	4,091
Minnesota.....	14,277	13,432	846	11,263	993	11,956	10,788	869	299	2,321
Iowa.....	9,468	8,711	758	8,015	756	8,771	7,671	779	421	697
Missouri.....	15,045	14,068	377	14,110	377	14,487	11,971	1,263	1,264	558
North Dakota.....	2,255	772	1,483	707	1,483	2,190	510	16	1,072	64
South Dakota.....	3,499	590	2,909	587	2,879	3,467	578	-	2,873	32
Nebraska.....	5,434	4,421	1,014	4,400	1,013	5,423	-	622	4,800	11
Kansas.....	10,559	10,543	17	10,137	17	10,153	8,088	1,813	252	406
South Atlantic.....	147,266	134,392	12,874	117,185	12,195	129,380	119,389	4,851	5,140	17,887
Delaware.....	3,048	3,045	-	2,884	-	2,884	2,796	88	-	164
Maryland.....	13,905	12,934	971	11,526	970	12,496	12,331	130	35	1,400
Dist. of Columbia...	747	743	4	704	4	708	704	-	4	30
Virginia.....	24,216	23,432	874	21,109	803	21,912	21,230	212	460	2,304
West Virginia.....	24,276	23,479	796	17,868	351	18,219	18,219	-	-	6,056
North Carolina.....	26,315	21,951	4,364	20,607	4,329	24,937	23,735	118	1,084	1,378
South Carolina.....	13,840	11,776	2,064	8,947	2,001	11,548	9,515	13	2,020	2,292
Georgia.....	14,235	11,299	2,936	9,115	2,870	11,985	10,832	-	1,153	2,250
Florida.....	26,685	26,420	265	24,426	265	24,691	20,027	4,290	374	1,994
East South Central...	107,313	90,879	16,434	86,659	16,410	103,068	90,037	4,080	68,952	4,245
Kentucky.....	25,960	23,693	2,328	23,470	2,328	25,798	7,014	285	17,618	163
Tennessee.....	40,937	33,215	7,722	32,010	7,722	39,733	7,310	3,591	35,412	1,205
Alabama.....	35,289	28,005	6,384	20,829	6,356	38,188	17,267	-	15,922	2,100
Mississippi.....	6,127	5,127	-	4,349	-	4,349	4,126	224	-	777
West South Central...	112,969	111,898	1,161	84,189	1,161	85,350	75,927	6,402	3,021	27,619
Arkansas.....	7,834	7,341	493	5,502	493	5,995	5,240	194	562	1,839
Louisiana.....	23,967	23,367	-	14,835	-	14,835	13,876	950	-	8,632
Oklahoma.....	11,595	11,204	190	10,067	190	11,157	9,915	348	804	237
Texas.....	70,874	69,896	478	52,885	478	53,363	40,896	4,901	1,566	17,011
Mountain.....	46,059	27,015	19,044	23,356	19,040	42,396	29,320	1,150	11,926	3,664
Montana.....	6,649	638	6,011	583	6,011	6,504	5,054	-	1,541	55
Idaho.....	6,130	151	5,979	(Z)	5,978	5,978	4,987	73	948	151
Wyoming.....	3,264	2,385	879	2,207	879	3,140	2,258	(Z)	888	118
Colorado.....	7,227	6,194	1,034	5,716	1,033	6,749	5,042	668	1,038	479
New Mexico.....	5,371	5,328	44	4,909	44	4,952	4,344	157	451	419
Arizona.....	10,714	7,773	2,942	6,062	2,942	9,003	4,387	10	5,206	1,111
Utah.....	3,758	3,405	353	2,212	350	2,562	2,220	239	95	1,106
Nevada.....	2,946	1,142	1,804	1,008	1,804	2,811	1,050	3	1,758	135
Pacific.....	141,552	59,037	82,515	55,898	82,173	138,070	70,607	17,017	50,446	3,481
Washington.....	44,019	903	43,116	-	42,929	42,928	3,858	3,770	35,300	1,091
Oregon.....	14,207	571	13,630	3	13,561	13,600	4,383	239	8,978	608
California.....	79,989	54,055	25,934	53,536	25,334	78,870	60,170	12,807	5,892	1,119
Alaska.....	799	473	325	207	325	532	54	201	277	267
Hawaii.....	2,538	2,436	103	2,118	23	2,141	2,141	-	-	397

- Entry represents zero. Z Less than 500,000 kw-hr.

¹ Includes Federal, State, public utility districts, and cooperatives.

Source: Federal Power Commission; annual summaries and related monthly reports.

No. 747. WATER POWER—DEVELOPED, 1920 TO 1963, AND ESTIMATED UNDEVELOPED, 1963, BY STATES

[In thousands of kilowatts. As of December 31]

STATE	DEVELOPED WATER POWER (capacity of actual installations only)										Estimated undeveloped water power, 1963
	Electric utilities only		Electric utilities and industrial plants								
			1939		1950		1960		1963		
	1920	1930	Total	Utilities	Total	Utilities	Total	Utilities	Total	Utilities	
United States ¹	3,704	8,585	12,075	11,004	18,675	17,675	33,180	32,423	40,928	40,214	115,734
New England	291	753	1,115	833	1,239	971	1,520	1,255	1,502	1,249	3,128
Maine	40	174	301	188	391	270	495	351	495	350	1,786
New Hampshire	43	212	292	235	312	262	445	398	442	396	571
Vermont	49	156	173	158	192	177	199	186	198	185	345
Massachusetts	114	129	228	161	223	168	227	186	224	182	248
Rhode Island	2	2	14	3	11	3	3	2	3	2	-
Connecticut	44	79	107	88	107	89	161	132	139	133	178
Middle Atlantic	662	1,290	1,633	1,563	1,678	1,602	2,472	2,391	4,477	4,405	5,179
New York	540	1,074	1,229	1,165	1,225	1,155	2,028	1,952	4,034	3,968	1,616
New Jersey	1	1	6	3	9	6	8	6	8	6	241
Pennsylvania	120	215	399	395	444	441	436	433	434	431	3,322
East North Central	372	602	790	703	901	828	929	832	906	813	1,351
Ohio	17	13	16	12	16	12	9	6	3	2	252
Indiana	11	35	38	35	37	37	31	31	29	29	396
Illinois	43	50	51	49	54	49	42	38	41	39	206
Michigan	167	258	368	344	396	384	419	381	407	370	272
Wisconsin	134	247	318	263	396	347	427	376	424	373	225
West North Central	257	279	537	501	629	577	1,594	1,552	2,693	2,651	4,515
Minnesota	88	122	168	126	181	138	186	152	183	150	142
Iowa	138	124	127	127	137	137	136	136	138	138	382
Missouri	12	13	151	151	151	151	293	293	801	801	2,074
North Dakota	-	-	(Z)	-	-	-	400	400	400	400	106
South Dakota	5	4	4	4	11	3	333	324	926	918	771
Nebraska	7	11	87	86	142	142	240	240	238	238	648
Kansas	7	6	9	7	6	6	6	6	6	6	303
South Atlantic	589	1,603	2,224	1,803	2,767	2,297	3,773	3,592	4,665	4,486	9,903
Delaware	-	-	(Z)	-	1	-	-	-	-	-	-
Maryland	1	272	273	271	272	271	272	271	272	271	385
District of Columbia	-	2	3	2	3	3	3	3	3	3	-
Virginia	45	83	204	182	207	183	416	396	418	396	1,595
West Virginia	9	56	209	101	208	101	208	101	208	102	2,173
North Carolina	144	397	651	400	962	662	1,220	1,206	1,692	1,679	1,074
South Carolina	231	506	520	495	679	653	958	932	961	936	2,054
Georgia	155	271	349	337	425	412	653	640	1,069	1,067	2,638
Florida	4	14	14	14	13	13	42	42	42	42	84
East South Central	170	863	1,270	1,140	2,729	2,721	3,750	3,742	4,311	4,303	4,870
Kentucky	-	105	111	111	271	271	541	541	541	541	1,582
Tennessee	97	127	432	310	1,238	1,238	1,910	1,910	1,921	1,921	762
Alabama	72	632	727	719	1,220	1,212	1,299	1,291	1,849	1,841	2,072
Mississippi	-	-	-	-	-	-	-	-	-	-	154
West South Central	4	19	140	139	466	463	944	944	1,124	1,124	3,453
Arkansas	1	11	67	67	148	145	388	388	568	568	1,315
Louisiana	-	-	1	-	-	-	-	-	-	-	20
Oklahoma	1	2	2	2	74	74	165	165	165	165	956
Texas	2	6	71	71	245	245	391	390	390	390	1,162
Mountain	487	784	1,583	1,581	2,286	2,282	4,621	4,618	4,852	4,850	26,652
Montana	212	300	321	321	427	426	1,235	1,235	1,262	1,262	6,921
Idaho	135	225	257	257	441	440	1,251	1,250	1,250	1,249	10,134
Wyoming	2	12	47	47	79	79	189	189	213	213	1,101
Colorado	48	52	67	66	92	91	253	253	266	266	2,461
New Mexico	1	1	1	1	25	25	25	25	25	25	171
Arizona	23	87	293	293	541	541	980	980	980	980	4,589
Utah	58	98	93	92	94	94	100	100	174	173	1,245
Nevada	9	9	505	504	587	586	587	586	683	682	30
Pacific ¹	872	2,391	2,783	2,741	5,979	5,933	13,578	13,497	16,399	16,334	56,983
Washington	241	596	812	784	2,591	2,564	7,002	6,974	9,008	8,981	19,294
Oregon	65	156	286	278	783	766	2,434	2,414	2,742	2,721	5,946
California	566	1,640	1,685	1,680	2,606	2,604	4,054	4,052	4,545	4,543	9,851
Alaska	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	67	51	85	85	21,617
Hawaii	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	21	5	19	3	275

- Entry represents zero. NA Not available. Z Less than 500 kw.

¹ Beginning 1960, includes Alaska and Hawaii.

Source: Federal Power Commission; annual summaries and related monthly reports.

No. 748. FEDERAL ELECTRIC UTILITY PROJECTS—INSTALLED CAPACITY AND INVESTMENT ALLOCATED TO ELECTRIC PLANT: 1955, 1960, and 1963

[As of June 30. Beginning 1960, includes Alaska and Hawaii. Comprises only the electricity generating plant of these projects and excludes projects not primarily manufacturing electricity (e.g., West Point, Annapolis). Investments represent allocation to power projects for capital equipment and improvements. Reserves for depreciation have not been deducted]

PROJECT GROUP OR SYSTEM	INSTALLED CAPACITY (1,000 kw.)			INVESTMENT ALLOCATED ¹ (\$1,000)		
	1955	1960	1963	1955	1960	1963
Total	15,033	22,616	26,186	3,811,843	5,397,699	6,595,374
Percent capacity of all electric utilities.....	13.1	13.5	12.9	(X)	(X)	(X)
Central Valley: Bureau of Reclamation.....	522	630	697	134,081	137,861	280,432
Columbia Basin.....	3,619	6,063	6,519	1,020,600	1,607,100	1,767,247
Bonneville Power Administration (transmission).....	-	-	-	368,914	479,913	538,090
Bureau of Reclamation.....	2,259	2,282	2,282	218,084	277,200	257,228
Corps of Engineers.....	1,360	3,781	4,237	433,692	849,987	961,929
Hoover and Parker-Davis: Bureau of Reclamation.....	1,595	1,595	1,690	205,598	208,635	214,668
Missouri Basin.....	687	1,142	2,024	369,577	661,373	971,986
Bureau of Reclamation.....	362	397	444	214,278	304,212	375,604
Corps of Engineers.....	325	745	1,580	155,299	357,161	596,382
Southeastern Power Administration.....	1,031	1,271	1,612	259,142	410,111	543,796
Southeastern Power Administration (transmission).....	-	-	-	63	88	98
Corps of Engineers.....	1,031	1,271	1,612	259,079	410,023	543,698
Southwestern Power Administration.....	426	601	791	144,629	230,192	244,194
Southwestern Power Administration (transmission).....	-	-	-	23,444	27,108	30,124
Corps of Engineers.....	426	601	791	121,185	203,084	214,070
Tennessee Valley Authority.....	7,005	11,032	12,555	1,634,057	2,054,316	2,481,372
Other projects.....	148	282	298	44,169	88,110	95,079
Bureau of Reclamation.....	83	218	284	20,463	61,941	69,486
Corps of Engineers.....	18	18	18	11,834	11,840	11,870
Bureau of Indian Affairs.....	15	14	14	6,342	7,602	7,602
International Boundary and Water Commission.....	32	32	32	5,500	6,721	6,721

- Entry represents zero. X Not applicable. ¹ Includes estimates.

Source: Federal Power Commission; unpublished data.

No. 749. RURAL ELECTRIFICATION ADMINISTRATION—ELECTRIC PROGRAM, SUMMARY OF OPERATIONS: 1940 TO 1964

[Includes data from date of first loan to borrowers in Virgin Islands (1940), Alaska (1941), and Puerto Rico (1952)]

ITEM	1940	1950	1955	1960	1961	1962	1963	1964 ¹
Loans approved, cumulative, Dec. 31: ²								
Borrowers ³	791	1,076	1,077	1,087	1,091	1,096	1,101	1,105
Amount.....mil. dol.....	351	2,312	3,125	4,256	4,509	4,780	5,073	5,477
Systems in operation, Dec. 31: ⁴								
Systems ⁵	685	1,007	1,026	1,038	1,038	1,042	1,046	1,052
Miles energized ⁶.....1,000.....	268	1,089	1,362	1,465	1,483	1,504	1,527	1,548
Consumers served ⁷.....1,000.....	674	3,413	4,251	4,826	4,956	5,095	5,238	5,381
Borrowers' operations during year: ⁸								
Energy generated.....mil. kw.-hr.....	(NA)	1,077	3,255	4,922	5,118	6,043	7,002	8,235
Energy purchased.....mil. kw.-hr.....	(NA)	7,270	14,996	26,057	27,754	30,134	33,005	36,302
Energy sold.....mil. kw.-hr.....	(NA)	6,884	15,739	27,269	28,967	31,880	35,357	39,361
Revenue.....mil. dol.....	(NA)	220	420	615	651	697	746	789
Average monthly consumption per consumer:								
All consumers.....kw.-hr.....	(NA)	180	306	496	487	526	565	602
Residential consumers ⁹.....kw.-hr.....	(NA)	147	242	357	375	401	425	452
Total utility plant.....mil. dol.....	(NA)	(NA)	2,706	3,697	3,897	4,104	4,406	4,600
Employees.....	(NA)	(NA)	(NA)	(NA)	28,034	29,046	29,816	30,300

NA Not available. ¹ Preliminary, except loans approved.

² Net; i.e., excludes loans rescinded. For 1940, includes amounts not yet under loan contract.

³ Organizations, mainly cooperatives, to which loans for extending central station electric service in rural areas are made.

⁴ Includes data at time of repayment of loan for borrowers whose loans have been repaid in full. As of Dec. 31, 1964, there were 60 such borrowers, with 21,587 miles energized and 117,552 consumers served.

⁵ Rural electric distribution, generation, and transmission systems operated by REA borrowers.

⁶ Pole miles of electric distribution and transmission line in service.

⁷ Through 1964, this item was headed "Consumers connected." The change was a result of a revised definition of a consumer as reported by REA borrowers, effective Jan. 1, 1955. It resulted in a downward adjustment in the national total of about 60,000 for 1955, chiefly through elimination of idle services.

⁸ Excludes energy sales and revenues of power sold by one REA borrower to another.

⁹ Includes rural-nonfarm and farm consumers.

Source: Dept. of Agriculture, Rural Electrification Administration; *Annual Statistical Report—Rural Electrification Borrowers*.

No. 750. CONSUMPTION OF FUELS BY ELECTRIC UTILITIES: 1920 TO 1964

[For years ending December 31. Beginning 1963, includes Alaska and Hawaii. Includes use of fuels for stand-by purposes. See also *Historical Statistics, Colonial Times to 1967*, series S 36-43]

YEAR	Net generation by fuel ¹	FUEL CONSUMED								
		Total coal equivalent	Coal			Oil	Gas	Per kilowatt-hour		
			Total ²	Bituminous ³	Anthracite			Coal	Oil	Gas
	<i>Mil. kw.-hr.</i>	<i>1,000 short tons</i>	<i>1,000 short tons</i>	<i>1,000 short tons</i>	<i>1,000 short tons</i>	<i>1,000 gal.-bbl.</i>	<i>Mil. cu. ft.</i>	<i>Lb.</i>	<i>Gal.</i>	<i>Cu. ft.</i>
1920.....	23,495	35,791	31,640	30,099	1,540	12,690	22,136	3.0	0.254	36.9
1925.....	39,443	40,014	35,615	33,803	1,812	9,794	45,472	2.0	0.185	23.9
1930.....	59,533	47,545	40,278	38,130	2,148	8,505	119,553	1.60	0.132	19.0
1935.....	56,689	40,797	32,715	30,936	1,779	11,267	124,118	1.44	0.118	17.0
1940.....	93,963	62,942	51,474	49,126	2,348	16,325	180,096	1.34	0.112	16.5
1945.....	142,331	92,642	74,725	71,603	3,122	29,228	326,212	1.30	0.109	16.5
1950.....	232,813	138,421	91,871	88,282	3,609	75,420	628,919	1.19	0.094	14.1
1955.....	433,786	206,929	143,759	140,550	3,209	75,274	1,153,280	0.95	0.085	12.1
1960.....	607,142	266,064	176,634	173,882	2,751	85,340	1,724,762	0.88	0.078	10.9
1961.....	640,189	276,369	182,121	178,612	2,509	85,738	1,825,117	0.86	0.076	10.8
1962.....	⁴ 684,032	293,573	193,238	190,941	2,297	85,758	1,955,074	0.858	0.077	10.7
1963.....	³ 751,038	321,341	211,332	208,198	2,139	93,314	2,144,473	0.856	0.075	10.6
1964 (prel.).....	² 806,466	345,632	225,402	223,162	2,239	101,162	2,321,889	0.857	0.075	10.6

¹ Beginning 1961, includes limited output by use of wood, waste, and nuclear fuel.

² Includes lignite.

³ Includes nuclear power kw.-hr. (in millions), 2,270 in 1962, 3,212 in 1963, and 3,341 in 1964; and wood, waste and geothermal kw.-hr. (in millions), 229 in 1962, 296 in 1963, and 342 in 1964.

Source: Federal Power Commission; annual summaries and related monthly reports.

No. 751. ELECTRIC UTILITIES—BALANCE SHEET AND INCOME ACCOUNT OF PRIVATELY OWNED CLASS A AND B COMPANIES: 1940 TO 1963

[In millions of dollars. For years ending December 31. Includes Alaska and Hawaii for 1960 and subsequent years. Data cover reports of all companies with annual electric revenues over \$1 million representing about 98 percent of the investor-owned industry. See also *Historical Statistics, Colonial Times to 1967*, series V 128-142]

ITEM	1940	1945	1950	1955	1960	1962	1963
COMPOSITE BALANCE SHEET							
Assets and other debits.....	15,477	14,452	20,523	30,992	44,742	49,191	51,389
Electric utility plant.....	10,447	12,176	18,956	30,307	45,456	50,699	53,475
Accumulated provisions for depreciation and amortization.....	(NA)	(NA)	3,838	5,715	8,889	10,550	11,511
Net electric utility plant.....	(NA)	(NA)	15,124	24,594	36,567	40,149	41,964
Other utility plant.....	3,960	2,315	2,485	3,402	4,852	5,459	5,813
Accumulated provisions for depreciation and amortization.....	(NA)	(NA)	534	678	963	1,122	1,211
Net other utility plant.....	(NA)	(NA)	1,951	2,724	3,889	4,337	4,602
Total utility plant.....	14,407	14,491	21,441	33,709	50,308	56,158	59,288
Accumulated provisions for depreciation and amortization.....	1,913	3,045	4,368	6,391	8,852	11,672	12,722
Net total utility plant.....	12,494	11,446	17,075	27,318	40,456	44,486	46,566
Other property and investments.....	1,380	1,090	1,237	933	1,004	1,125	1,149
Current and accrued assets.....	1,123	1,672	2,058	2,567	3,066	3,320	3,411
Deferred debits.....	480	244	153	174	216	260	263
Liabilities and other credits.....	15,477	14,452	20,523	30,992	44,742	49,191	51,389
Capital stock.....	3,471	5,960	7,621	10,404	13,322	14,325	15,074
Other paid-in capital.....	255	282	589	1,083	1,747	1,990	1,990
Earned surplus.....	860	766	1,346	2,191	3,736	4,481	4,640
Long-term debt.....	8,895	6,118	9,179	14,316	21,035	22,912	23,632
Current and accrued liabilities.....	692	965	1,527	2,381	3,112	3,285	3,619
Deferred credits and operating reserves.....	261	325	195	247	277	354	461
Contributions in aid of construction.....	43	46	66	109	188	218	236
Accumulated deferred income taxes.....	-	-	-	261	1,325	1,626	1,737
COMPOSITE INCOME ACCOUNTS							
Electric operating revenues.....	2,404	3,171	4,784	7,199	10,116	11,392	12,018
Electric operating expenses.....	1,667	2,408	3,828	5,702	7,917	8,801	9,249
Net electric operating revenues.....	737	763	956	1,497	2,199	2,591	2,769
Income from electric plant leased to others.....	7	5	5	3	2	2	2
Electric utility operating income.....	744	768	961	1,500	2,201	2,593	2,771
Other utility operating income.....	61	65	72	120	196	242	251
Total utility operating income.....	805	833	1,033	1,620	2,397	2,835	3,022
Other income.....	68	54	68	63	79	73	85
Total income.....	873	887	1,101	1,683	2,476	2,908	3,107
Income deductions.....	325	353	279	439	593	855	929
Net income.....	548	534	822	1,244	1,783	2,053	2,178

- Entry represents zero. NA Not available.

¹ Includes amounts unclassified as to utility departments: \$2,309 million in 1940 and \$491 million in 1945.

Source: Federal Power Commission; annual report, *Statistics of Electric Utilities in the United States*.

No. 752. ELECTRIC LIGHT AND POWER INDUSTRY—ENERGY GENERATED, SALES, REVENUE, AND CUSTOMERS: 1940 TO 1964

[Beginning 1960, includes Alaska and Hawaii]

CLASS	1940	1950	1955	1960	1963	1964
Energy generated ¹.....mil. kw.-hr.	141, 837	329, 141	547, 038	756, 296	916, 793	² 982, 732
Sales to ultimate customers.....mil. kw.-hr.	118, 643	280, 539	480, 921	683, 199	830, 811	890, 356
Residential or domestic.....mil. kw.-hr.	23, 317	67, 030	120, 524	196, 400	241, 692	262, 010
Rural (distinct rural rates).....mil. kw.-hr.	1, 991	7, 400	10, 751	(³)	(³)	(³)
Commercial and industrial:						
Small light and power.....mil. kw.-hr.	22, 373	50, 446	76, 254	114, 806	166, 516	183, 539
Large light and power.....mil. kw.-hr.	59, 557	139, 085	253, 711	344, 799	388, 309	409, 356
All other.....mil. kw.-hr.	11, 405	16, 598	19, 681	27, 194	34, 204	35, 451
Revenue from ultimate customers.....mil. dol.	2, 440	5, 086	8, 020	11, 516	13, 697	14, 408
Residential or domestic.....mil. dol.	896	1, 932	3, 187	4, 856	6, 723	6, 041
Rural (distinct rural rates).....mil. dol.	49	193	229	(³)	(³)	(³)
Commercial and industrial:						
Small light and power.....mil. dol.	680	1, 334	1, 909	2, 828	3, 788	4, 028
Large light and power.....mil. dol.	631	1, 405	2, 360	3, 334	3, 596	3, 733
All other.....mil. dol.	174	258	336	498	590	606
Ultimate customers, Dec. 31.....1,000	30, 191	44, 986	52, 559	58, 870	62, 857	64, 149
Residential or domestic.....1,000	24, 952	37, 533	44, 409	51, 446	55, 073	56, 307
Rural (distinct rural rates).....1,000	686	1, 596	1, 648	(³)	(³)	(³)
Commercial and industrial:						
Small light and power.....1,000	4, 260	5, 466	6, 020	6, 760	7, 232	7, 294
Large light and power.....1,000	178	235	311	454	321	318
All other.....1,000	115	187	171	210	231	230

¹ Figures obtained by Edison Electric Institute from Federal Power Commission.

² Preliminary.

³ Allocated to appropriate other classes of service.

Source: Edison Electric Institute, New York, N.Y.; *Statistical Year Book*.

No. 753. GAS UTILITY AND PIPELINE INDUSTRY—BALANCE SHEET AND INCOME ACCOUNT: 1940 TO 1963

[In millions of dollars. Beginning 1960, includes Hawaii, and 1961, Alaska. Represents companies owned by private investors. Excludes operations of companies distributing gas in bottles or in tanks]

ITEM	1940	1945	1950	1955	1960	1961	1962	1963
COMPOSITE BALANCE SHEET								
Assets and other debits.....	4, 980	5, 610	9, 010	15, 435	24, 570	26, 555	28, 500	29, 535
Utility plant and adjustments.....	4, 330	4, 770	7, 620	13, 305	20, 835	22, 385	23, 940	25, 055
Investment and fund accounts.....	200	185	360	525	1, 380	1, 635	1, 705	1, 660
Current and accrued assets.....	300	590	970	1, 465	2, 185	2, 340	2, 550	2, 610
Deferred debits ¹	90	65	60	140	170	195	205	210
Liabilities and other credits.....	4, 980	5, 610	9, 010	15, 435	24, 570	26, 555	28, 500	29, 535
Capital stock.....	1, 740	1, 705	2, 405	3, 905	5, 785	6, 280	6, 645	6, 765
Long-term debt.....	1, 675	1, 495	3, 145	5, 900	9, 130	10, 080	10, 450	10, 605
Current and accrued liabilities.....	245	350	735	1, 300	2, 420	2, 480	2, 890	2, 940
Reserve for depreciation, retirement, depletion, etc.....	870	1, 400	1, 740	2, 775	4, 570	5, 025	5, 615	6, 045
Capital surplus.....	(NA)	120	135	200	145	175	100	120
Retained income.....	(NA)	375	720	1, 040	1, 880	1, 875	2, 000	2, 140
Other liabilities and credits.....	550	165	130	225	640	660	800	920
COMPOSITE INCOME ACCOUNT								
Operating revenues.....	1, 054	1, 363	2, 553	5, 093	8, 696	9, 282	10, 019	10, 435
Operating revenue deductions.....	839	1, 152	2, 182	4, 398	7, 587	8, 124	8, 745	9, 136
Net operating revenues.....	215	211	371	695	1, 109	1, 158	1, 274	1, 299
Income from utility plant leased to others.....	-1	(Z)	1	2	3	6	6	6
Utility operating income.....	214	211	372	697	1, 112	1, 164	1, 280	1, 305
Other income (nonoperating).....	9	15	33	48	110	90	136	104
Gross income.....	223	226	405	715	1, 222	1, 254	1, 416	1, 409
Income deductions.....	78	74	88	206	392	436	509	519
Net income.....	145	152	317	509	830	818	907	890

NA Not available. Z Less than \$500,000.

¹ Includes capital stock discount and expense and reacquired securities. Beginning 1960, reacquired securities are deducted from the appropriate capital account.

Source: American Gas Association, New York, N.Y.; yearbook, *Gas Facts*.

No. 754. GAS UTILITY INDUSTRY—CUSTOMERS AND REVENUES, BY CLASS OF SERVICE: 1935 TO 1964

[Beginning 1960, includes Hawaii. Beginning 1961, natural gas only included for Alaska. Covers natural, manufactured, mixed, and liquid petroleum gas. Based on questionnaire mailed to all privately owned gas utilities and municipally owned gas departments in the United States, except those with annual revenues less than \$25,000, which in the aggregate account for only a negligible portion of the industry]

YEAR	CUSTOMERS ¹ (1,000)					REVENUES ² (mil. dol.)				
	Total	Residen- tial	Com- mercial	Indus- trial	Other	Total	Residen- tial	Com- mercial	Indus- trial	Other
1935.....	15,810	14,725	1,014	72	8	727	503	91	130	2
1940.....	17,600	16,381	1,138	73	8	872	573	112	182	5
1945.....	19,977	18,607	1,278	80	13	1,153	705	149	281	18
1950.....	24,001	22,146	1,739	90	17	1,948	1,177	266	480	26
1955.....	28,479	26,283	2,048	121	28	3,450	2,007	424	938	81
1957.....	30,476	28,101	2,211	132	32	4,134	2,379	506	1,150	99
1958.....	31,242	28,787	2,287	134	35	4,568	2,668	571	1,229	111
1959.....	32,066	29,530	2,364	136	36	5,065	2,870	633	1,431	131
1960.....	33,054	30,418	2,458	141	37	5,617	3,177	723	1,563	153
1961.....	33,831	31,118	2,529	147	37	5,903	3,377	789	1,658	169
1962.....	34,683	31,893	2,698	156	37	6,445	3,603	874	1,796	171
1963.....	35,551	32,711	2,640	162	39	6,727	3,728	910	1,906	183
1964 (prel.)..	36,552	33,676	2,771	166	39	7,092	3,857	982	2,045	208

¹ Yearly averages.

² Excludes revenues from sales for resale.

Source: American Gas Association, New York, N.Y.; yearbook, *Gas Facts*.

No. 755. UTILITY GAS MAINS—MILEAGE, BY TYPE OF GAS AND TYPE OF MAIN: 1945 TO 1964

[As of December 31. Beginning 1960, includes Hawaii. Beginning 1961, natural gas only included for Alaska. Excludes service pipe. Data not adjusted to common diameter equivalent]

TYPE OF GAS AND MAIN	1945	1950	1955	1959	1960	1961	1962	1963	1964 (prel.)
All types.....	310,670	387,470	496,740	599,830	630,950	653,960	683,230	710,200	741,500
Field and gathering.....	27,000	32,850	45,680	54,130	55,850	58,730	58,680	60,980	63,100
Transmission.....	82,190	113,050	145,970	174,280	183,600	191,840	196,380	200,550	209,100
Distribution.....	201,480	241,570	305,090	371,420	391,440	410,390	428,170	448,670	469,300
Natural gas.....	218,000	314,480	448,770	573,950	607,980	637,120	663,560	694,620	730,920
Field and gathering.....	27,000	32,850	45,680	54,130	55,850	58,730	58,680	60,980	63,100
Transmission.....	77,280	109,360	142,490	172,160	181,770	189,990	194,970	199,630	208,420
Distribution.....	113,720	172,270	260,600	347,660	370,360	390,400	409,910	434,010	459,400
Manufactured gas.....	73,000	55,420	11,960	1,810	1,570	1,510	1,500	1,490	1,490
Transmission.....	3,410	2,230	420	30	20	30	20	(Z)	(Z)
Distribution.....	68,590	53,190	11,540	1,780	1,550	1,480	1,480	1,490	1,490
Mixed gas.....	18,660	11,990	31,440	21,580	19,450	18,450	16,460	12,810	7,860
Transmission.....	1,480	1,370	2,990	2,070	1,860	1,810	1,380	920	680
Distribution.....	17,180	10,620	28,450	19,510	17,590	16,640	15,080	11,890	7,180
Liquefied petroleum gas.....	2,010	5,580	4,570	2,490	1,950	1,880	1,710	1,280	1,230
Transmission.....	20	90	70	20	10	10	10	—	—
Distribution.....	1,990	5,490	4,500	2,470	1,940	1,870	1,700	1,280	1,230

- Entry represents zero.

Z Less than 5 miles.

Source: American Gas Association, New York, N.Y.; yearbook, *Gas Facts*.

No. 756. GAS UTILITY INDUSTRY—CUSTOMERS AND REVENUES, BY TYPE OF GAS, CLASS OF SERVICE, AND STATES: 1963

[See headnote, table 754]

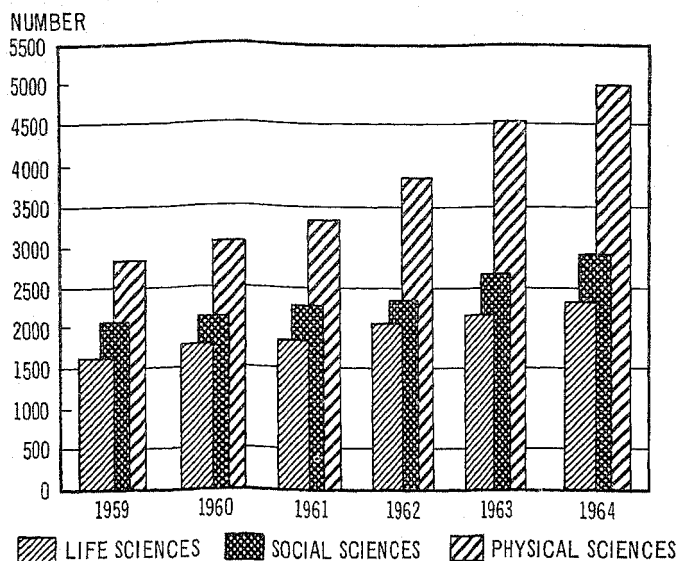
TYPE OF GAS AND STATE	CUSTOMERS ¹ (1,000)					REVENUES ² (mil. dol.)				
	Total	Residential	Commercial	Industrial	Other	Total	Residential	Commercial	Industrial	Other
United States ³	35,551.0	32,710.8	2,639.6	161.7	38.9	6,727	3,728	910	1,906	183
Natural gas ⁴	33,940.2	31,208.9	2,540.7	154.6	38.0	6,483	3,545	881	1,875	182
Manufactured gas	140.0	128.6	9.6	1.7	0.1	19	14	3	3	(Z)
Mixed gas	1,399.3	1,810.7	82.5	5.3	0.8	217	164	24	28	1
L.P. gas	71.6	64.6	6.8	0.1	(Z)	8	6	2	(Z)	(Z)
New England	1,630.1	1,526.7	92.7	9.8	0.9	252	184	36	29	3
Connecticut	376.2	350.5	23.2	2.4	0.1	62	42	9	10	(Z)
Maine	30.5	28.9	1.5	0.1	-	4	3	1	(Z)	-
Massachusetts	1,015.8	951.9	57.7	5.5	0.7	166	118	22	15	2
New Hampshire	39.2	36.4	2.5	0.2	0.1	7	5	1	1	(Z)
Rhode Island	153.0	145.2	7.1	1.6	(Z)	23	16	3	3	(Z)
Vermont	14.6	13.8	0.7	(Z)	-	1	1	(Z)	(Z)	-
Middle Atlantic	7,801.0	7,223.3	537.7	29.3	10.7	1,239	826	180	219	14
New Jersey	1,592.7	1,444.5	142.0	6.2	(Z)	238	169	30	30	(Z)
New York	4,031.6	3,730.9	271.9	14.9	7.9	584	374	87	63	10
Pennsylvania	2,176.7	2,041.9	123.8	8.2	2.8	467	264	53	126	4
East North Central	7,926.2	7,340.7	546.4	32.1	7.0	1,761	1,068	254	425	15
Illinois	2,487.9	2,328.0	145.9	13.7	0.3	498	320	64	113	1
Indiana	870.3	795.6	71.6	2.8	0.3	188	98	26	64	1
Michigan	1,016.9	1,480.3	123.2	7.4	(Z)	377	242	60	76	(Z)
Ohio	2,384.3	2,157.1	166.1	4.7	6.4	677	330	87	140	9
Wisconsin	616.8	673.7	39.6	3.5	(Z)	131	78	17	32	4
West North Central	2,907.6	2,640.6	247.8	18.4	0.8	616	333	95	172	16
Iowa	504.9	452.0	51.3	1.5	0.1	112	64	22	24	3
Kansas	564.0	514.2	47.2	3.4	0.1	111	45	12	49	5
Minnesota	529.8	489.6	36.3	3.8	0.1	134	79	19	35	1
Missouri	880.0	809.6	66.2	4.0	0.2	167	99	25	40	3
Nebraska	314.2	274.7	34.0	5.3	0.2	69	34	11	19	5
North Dakota	43.3	38.3	4.9	0.1	(Z)	8	4	2	1	(Z)
South Dakota	70.5	62.2	7.9	0.3	0.1	15	8	4	3	(Z)
South Atlantic	2,791.6	2,557.3	216.7	11.4	6.2	586	314	81	181	10
Delaware	69.1	65.3	3.7	0.1	(Z)	15	9	1	4	(Z)
Dist. of Columbia	175.0	154.9	17.7	0.9	1.5	29	20	8	(Z)	1
Florida	274.8	253.7	20.2	0.5	0.4	69	17	11	40	1
Georgia	612.5	594.2	44.2	3.7	0.4	118	63	15	38	1
Maryland	603.7	563.4	37.3	2.2	0.8	106	77	11	18	1
North Carolina	167.2	146.4	19.0	1.7	0.1	47	19	7	19	1
South Carolina	128.0	112.5	14.3	0.7	0.5	35	12	5	18	(Z)
Virginia	401.6	368.8	30.7	1.1	1.0	84	53	13	16	3
West Virginia	359.7	323.1	29.6	0.5	1.5	84	44	10	28	2
East South Central	1,600.7	1,446.2	143.3	5.3	5.9	351	156	49	136	10
Alabama	497.1	460.4	34.3	1.0	1.4	107	49	12	40	(Z)
Kentucky	474.3	430.9	41.1	0.8	1.5	91	53	13	22	3
Mississippi	294.5	261.7	20.0	1.5	1.4	60	22	7	37	3
Tennessee	334.8	293.2	38.0	2.0	1.6	84	32	17	31	4
West South Central	4,126.9	3,735.4	355.7	31.2	4.6	734	264	68	376	26
Arkansas	337.6	295.4	40.0	2.1	0.1	72	25	10	37	1
Louisiana	750.8	701.8	54.2	2.9	0.9	160	44	9	105	3
Oklahoma	627.9	565.5	58.5	3.7	0.2	93	45	13	27	8
Texas	2,401.6	2,172.7	203.0	22.5	3.4	400	151	36	207	15
Mountain	1,469.8	1,312.5	149.5	5.1	2.7	286	129	45	103	9
Arizona	351.2	318.1	31.1	1.3	0.7	63	24	8	29	3
Colorado	452.3	399.0	52.7	0.5	0.1	75	38	17	19	2
Idaho	43.8	35.8	7.6	0.2	0.2	16	5	3	8	(Z)
Montana	128.6	114.0	14.0	0.6	(Z)	27	13	6	8	1
Nevada	35.4	33.6	1.7	0.1	(Z)	13	5	2	7	(Z)
New Mexico	191.7	171.7	16.8	1.8	1.4	38	16	4	16	3
Utah	195.5	178.1	17.0	0.4	(Z)	40	23	3	14	(Z)
Wyoming	71.3	62.2	8.6	0.2	0.3	12	6	2	4	(Z)
Pacific ³	5,297.1	4,928.1	349.8	19.1	0.1	902	454	102	265	81
California	4,971.7	4,647.8	308.3	15.5	0.1	802	415	84	223	80
Oregon	122.6	107.0	14.5	1.1	(Z)	33	14	6	13	(Z)
Washington	161.0	136.1	24.1	0.8	(Z)	58	20	11	27	(Z)
Alaska ⁴	3.1	2.4	0.5	0.2	(Z)	3	1	1	1	1
Hawaii	38.7	34.8	2.4	1.5	-	6	4	1	2	-

- Entry represents zero. Z Customers, less than 50; revenues, less than \$500,000.

¹ Averages for the year. ² Excludes revenues from sales for resale.³ Natural gas only included for Alaska. ⁴ Natural gas only.Source: American Gas Association, New York, N.Y.; yearbook, *Gas Facts*.

Fig. XXXIV. SCIENCE DOCTORATES CONFERRED, BY FIELD: 1959 TO 1964

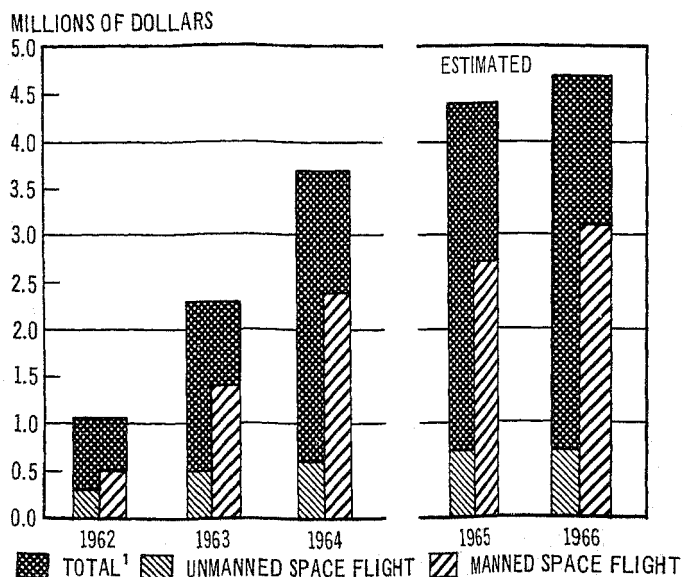
[See table 767]



Source: Chart prepared by Dept. of Commerce, Bureau of the Census. Data from National Science Foundation.

Fig. XXXV. NASA EXPENDITURES FOR RESEARCH AND DEVELOPMENT: 1962 TO 1966

[See table 775]



Source: Chart prepared by Dept. of Commerce, Bureau of the Census. Data from National Aeronautics and Space Administration.

Section 20

Science

This section presents statistics relating to various aspects of scientific and technical activity. Major topics are research and development, training and employment of scientists and engineers, atomic energy, space vehicles, and patents and trademarks. Principal sources of these data are the National Science Foundation, the Atomic Energy Commission, and the National Aeronautics and Space Administration.

The National Science Foundation gathers data chiefly through recurring statistical surveys and the National Register of Scientific and Technical Personnel (see below). Current Foundation publications containing data on funds for research and development and on scientific and engineering personnel include the bulletin series, *Reviews of Data on Science Resources*; the regular reports, *Federal Funds for Research, Development, and Other Scientific Activities*, *Research and Development in Industry*, and *American Science Manpower*; occasional reports relating to colleges and universities, and other nonprofit institutions; special reports such as *Scientific Manpower From Abroad*; and policy reports relating to national allocation of manpower and funds to science and technology. Statistical surveys in these areas pose particularly difficult problems of concept and definition and the data should, therefore, be regarded as broad estimates rather than precise quantitative statements. Detailed discussions of the scope and limitations of the data appear in the source publications.

Neither the National Aeronautics and Space Administration nor the Atomic Energy Commission publish any statistical reports as such. NASA's *Semiannual Report* contains current data on finances and its biweekly *Satellite Situation Report* presents information on artificial satellites, including both objects in orbit and decayed objects; and its one-page *Space Activities Summary*, issued for each space vehicle it launches, gives data on the launching vehicle, its payload, and its performance. The Atomic Energy Commission's annual and semiannual reports contain data on atomic energy, equipment, finances, and licenses.

Other sources of statistics on scientific and technical activities include *The Budget of the United States Government*, which contains summary financial data on all Federal research and development programs; the report series *Resources for Medical Research*, issued by the Public Health Service of the Department of Health, Education, and Welfare, and designed to present timely information on funds, manpower, facilities, and institutions devoted to medical and health-related research; and the *Annual Report of the Commissioner of Patents*, issued by the Department of Commerce's Patent Office and presenting data on patent applications and issuances and on trademark registrations and renewals.

Research and development.—The National Science Foundation defines research as a "systematic and intensive study directed toward a fuller knowledge of the subject studied" and development as "the systematic use of scientific knowledge directed toward the production of useful materials, devices, systems, methods, or processes." The data on funds are presented within the framework of a national economic structure composed of four sectors: (1) The *government sector*, made up primarily of Federal executive agencies; (2) the *industry sector*, consisting of manufacturing and nonmanufacturing firms and the Federal contract research centers they administer; (3) the *colleges and universities sector*, composed of colleges, universities, and their affiliated institutions, agricultural experiment stations and associated schools of agriculture, and

Federal contract research centers administered by educational institutions; and (4) the *other nonprofit institutions sector*, consisting of such organizations as private philanthropic foundations, nonprofit research institutes, voluntary health agencies, and Federal contract research centers administered by nonprofit organizations. The R&D funds reported consist of current operating costs, including those for planning and administration, except as otherwise noted. They exclude funds for routine testing, mapping and surveying, collection of general-purpose data, dissemination of scientific information, and training of scientific manpower.

Scientists, engineers, and technicians.—Scientists and engineers are defined as persons engaged in scientific and engineering work at a level requiring a knowledge of sciences equivalent at least to that acquired through completion of a 4-year college course. They are generally classified according to the fields of their employment and not according to the discipline in which they received their major training. Technicians are defined as persons engaged in technical work at a level requiring knowledge acquired through a technical institute, junior college, or other type of training less extensive than 4-year college training. Craftsmen and skilled workers are excluded. The National Register of Scientific and Technical Personnel is a comprehensive program, conducted by the National Science Foundation, for the voluntary registration of scientists. Because it is voluntary, the Register does not include all scientists in the United States but it does provide valuable statistical information on demographic and other characteristics of scientists not available elsewhere. Coverage is currently being extended to engineers.

Alaska and Hawaii.—Statements specifying inclusion or exclusion of figures for Alaska and Hawaii appear in the headnotes to each table unless the inclusion or exclusion is self-evident.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1957*. See preface.

NO. 757. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY CHARACTER OF WORK AND, FOR RESEARCH, BY FIELD OF SCIENCE: 1957 TO 1965

[In millions of dollars. For years ending June 30. Includes Alaska and Hawaii. Includes both intramural and extramural performance; excludes R&D plant. For explanation of the difference between obligations reported here and expenditures reported in table 758, see headnote, table 758]

ITEM	1957	1958	1959	1960	1961	1962	1963	1964 est.	1965 est.
Total research and development	3,931	4,569	6,687	7,545	9,053	10,282	12,464	14,605	15,045
Basic research.....	253	325	482	583	800	1,082	1,359	1,635	1,875
Applied research.....	700	743	949	1,379	1,847	2,220	2,711	2,936	3,212
Development.....	2,978	3,500	5,257	5,584	6,405	6,980	8,394	10,034	9,958
Total research	953	1,069	1,430	1,961	2,648	3,302	4,070	4,571	5,087
Life sciences:									
Biological sciences.....	67	70	90	107	130	146	186	215	247
Medical sciences.....	177	216	271	343	444	606	674	786	852
Agricultural sciences.....	56	59	64	68	63	71	76	83	87
Psychological sciences.....	(NA)	(NA)	26	39	52	57	72	97	115
Physical sciences:									
Physical sciences, proper.....	270	321	431	553	914	1,079	1,354	1,546	1,680
Mathematical sciences.....	12	14	16	24	46	64	87	101	113
Engineering sciences.....	335	348	467	747	818	1,024	1,441	1,551	1,743
Social sciences.....	37	41	31	35	45	63	80	103	127
Other sciences.....	(NA)	(NA)	35	35	134	193	99	89	124

NA Not available.

Source: National Science Foundation; annual report, *Federal Funds for Research, Development, and Other Scientific Activities* (formerly *Federal Funds for Science*).

NO. 758. FUNDS FOR PERFORMANCE OF RESEARCH AND DEVELOPMENT AND BASIC RESEARCH, BY SECTOR, DISTRIBUTED BY SOURCE: 1953 TO 1963

[In millions of dollars. Includes Alaska and Hawaii. The U.S. totals have been revised because of a shift in the time period designation from a hyphenated year (1953-54) to a single year (1953), e.g., data for calendar year 1954 for industry and other nonprofit institutions are now combined with data for the Federal and university sectors for their fiscal year 1954 (July 1953 through June 1954). Data refer in general to the natural sciences including engineering; however, some funds for psychology and the social sciences could not be eliminated. The major portion of funds excludes capital expenditures for research and development. Expenditures at Federal contract research centers administered by industry, colleges and universities, and other nonprofit institutions are included in the totals of the respective sectors]

PERFORMANCE SECTOR AND SOURCE OF FUNDS ¹	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962 (prel.)	1963 (prel.)
RESEARCH AND DEVELOPMENT ²											
Total funds used.....	5,160	5,660	6,200	8,370	9,810	10,810	12,430	13,620	14,380	15,610	17,350
Federal Government.....	1,010	1,020	950	1,090	1,280	1,440	1,730	1,830	1,890	2,220	2,400
Federal funds.....	1,010	1,020	950	1,090	1,280	1,440	1,730	1,830	1,890	2,220	2,400
Industry.....	3,630	4,070	4,640	6,610	7,730	8,390	9,620	10,510	10,910	11,540	12,720
Federal funds.....	1,430	1,750	2,180	3,330	4,330	4,760	5,640	6,080	6,240	6,520	7,340
Industry funds.....	2,200	2,320	2,460	3,280	3,400	3,630	3,980	4,430	4,670	5,020	5,380
Colleges and universities.....	420	450	480	530	650	780	840	1,000	1,200	1,400	1,700
Federal funds.....	260	280	300	330	415	530	570	720	890	1,050	1,300
Industry funds.....	20	20	20	20	25	30	40	40	50	55	65
College and university funds ³	120	130	140	155	180	190	190	200	210	230	260
Other nonprofit institutions funds ³	20	20	20	25	30	30	40	40	50	65	75
Other nonprofit institutions.....	100	120	130	140	150	200	240	280	380	450	530
Federal funds.....	60	70	70	70	80	110	130	140	200	255	300
Industry funds.....	20	25	30	30	30	40	50	70	90	100	120
Other nonprofit institutions funds ³	20	25	30	40	40	50	60	70	90	95	110
BASIC RESEARCH											
Total funds used.....	412	455	517	619	721	882	992	1,135	1,324	1,575	1,815
Federal Government.....	45	47	55	65	90	115	155	147	190	229	275
Federal funds.....	45	47	55	65	90	115	155	147	190	229	275
Industry.....	151	166	189	253	271	305	332	388	407	471	500
Federal funds.....	19	(NA)	(NA)	(NA)	41	53	84	91	93	144	150
Industry funds.....	132	(NA)	(NA)	(NA)	230	252	248	297	314	327	350
Colleges and universities.....	190	208	230	250	300	392	420	500	575	695	840
Federal funds.....	110	119	129	144	173	240	256	305	350	442	530
Industry funds.....	10	11	11	11	12	14	17	20	23	25	30
College and university funds ³	57	62	70	75	90	111	118	140	161	180	220
Other nonprofit institutions funds ³	13	16	20	20	25	27	29	35	41	48	60
Other nonprofit institutions.....	26	34	43	51	60	70	85	100	152	180	200
Federal funds.....	10	15	20	25	30	35	42	50	80	95	105
Industry funds.....	4	4	5	5	5	6	7	8	11	15	20
Other nonprofit institutions funds ³	12	15	18	21	25	29	36	42	61	70	75

NA Not available.

¹ Data on sources of funds are based on reports by the performers.

² Includes basic research, applied research, and development.

³ Includes State and local government funds received by these institutions and used for research and development.

Source: National Science Foundation; *Reviews of Data on Science Resources*, Vol. 1, No. 4, 1965. (Supersedes *Reviews of Data on Research and Development*.)

No. 759. FEDERAL OBLIGATIONS AND EXPENDITURES FOR RESEARCH AND DEVELOPMENT, AND R&D PLANT, BY AGENCY: 1955 TO 1965

[In millions of dollars. For years ending June 30. Includes Alaska and Hawaii. Includes both intramural and extramural performance. Includes social science research. Obligations differ from expenditures in any given year because not all funds are expended during the year obligated. Moreover, the expenditure data in this table differ from the Federal expenditure data in table 758 because of the difference between Federal fiscal year reports and predominantly calendar year reporting by other sectors. See also *Historical Statistics, Colonial Times to 1967*, series W 79-94 and W 95-100]

AGENCY	RESEARCH AND DEVELOPMENT					R&D PLANT				
	1955	1960	1963	1964 est.	1965 est.	1955	1960	1963	1964 est.	1965 est.
Total obligations.....	2,533	7,545	12,464	14,605	15,045	212	528	1,186	1,656	1,059
Departments:										
Agriculture.....	72	126	168	184	190	1	3	7	5	6
Commerce.....	15	31	52	55	68	1	2	29	53	19
Defense.....	1,945	5,712	7,286	7,526	7,223	139	114	87	134	118
Army.....	419	1,117	1,297	1,485	1,445	24	66	14	15	50
Navy.....	565	1,536	1,597	1,648	1,800	9	22	12	22	24
Air Force.....	939	2,816	3,945	3,831	3,507	106	18	44	76	44
Other ¹	22	243	447	562	671	-	8	17	21	-
HEW ²	68	320	656	795	877	3	30	60	88	104
Interior.....	32	64	92	109	115	(Z)	3	14	12	13
Atomic Energy Commission ³	327	762	1,078	1,237	1,244	46	227	321	406	260
NASA ⁴	43	369	2,836	4,326	4,963	21	118	598	875	436
National Science Foundation.....	10	68	145	166	205	1	13	61	60	90
All other.....	21	93	151	207	160	(Z)	9	9	23	13
Total expenditures.....	3,100	7,277	11,292	13,775	14,032	208	461	696	1,080	1,178
Departments:										
Agriculture.....	69	120	165	182	188	3	11	8	4	6
Commerce.....	9	30	48	55	68	1	3	22	33	36
Defense.....	2,519	5,553	6,794	7,348	6,996	111	101	55	102	111
Army.....	985	1,066	1,406	1,426	1,422	28	43	15	14	22
Navy.....	581	1,277	1,565	1,611	1,586	11	24	9	12	20
Air Force.....	910	2,958	3,609	3,828	3,444	72	20	30	56	57
Other ¹	43	252	314	483	544	-	14	1	20	12
HEW ²	66	292	590	689	732	4	32	42	61	78
Interior.....	31	63	96	110	116	1	2	7	11	18
Atomic Energy Commission ³	327	762	1,078	1,237	1,244	58	224	258	306	315
NASA ⁴	44	330	2,291	3,868	4,337	30	71	248	492	534
National Science Foundation.....	8	51	99	126	141	(Z)	7	43	49	63
All other.....	27	76	131	160	210	(Z)	10	13	22	17

- Entry represents zero. Z Less than \$500,000.

¹ Includes defense agencies such as the Advanced Research Projects Agency, Defense Atomic Support Agency, and the Defense Communication Agency; also includes Departmentwide funds which are composed of military assistance, civil defense, and emergency funds only. ² Health, Education, and Welfare.

³ Data represent "accrued costs" rather than obligations and expenditures, respectively.

⁴ National Aeronautics and Space Administration. For 1955, National Advisory Committee for Aeronautics. Source: National Science Foundation; annual report, *Federal Funds for Research, Development, and Other Scientific Activities* (formerly *Federal Funds for Science*).

No. 760. FUNDS FOR THE PERFORMANCE OF INDUSTRIAL RESEARCH AND DEVELOPMENT, BY CHARACTER OF WORK, 1958 TO 1962, AND BY SELECTED INDUSTRY, 1962

[In millions of dollars. Includes Alaska and Hawaii. Includes performance of Federal contract research centers administered by industrial firms, classified by industry of the administering company. Excludes performance by certain industry-oriented organizations, such as trade associations, that account annually for less than 1 percent of the total. Excludes funds for R&D capital and the social sciences]

YEAR AND INDUSTRY	Total	RESEARCH			Development
		Total	Basic	Applied	
1958.....	8,389	2,216	305	1,911	6,173
1959.....	9,618	2,323	332	1,991	7,295
1960.....	10,509	2,417	388	2,029	8,092
1961.....	10,908	2,384	407	1,977	8,524
1962.....	11,544	2,937	471	2,466	8,607
Chemical and allied products.....	1,184	(NA)	131	(NA)	(NA)
Petroleum refining and extraction ¹	805	183	48	135	122
Electrical equipment and communication ²	2,381	412	92	320	1,971
Aircraft and missiles.....	4,140	872	55	817	3,268
All other.....	8,534	(NA)	145	(NA)	(NA)

NA Not available.

¹ Excludes geological and geophysical exploration activities of petroleum companies.

² These 2 industries have been combined because of the similarity of their research and development activities.

Source: National Science Foundation; annual report, *Research and Development in Industry*.

NO. 761. FEDERAL PRIME CONTRACTS AND GRANTS AWARDED FOR RESEARCH AND DEVELOPMENT, BY PERFORMANCE SECTOR—STATES: 1963

[Money figures in thousands of dollars. For year ending June 30. Covers awards made by Departments of Defense; Health, Education, and Welfare; Agriculture; Interior; and Commerce; and by National Aeronautics and Space Administration, National Science Foundation, and Atomic Energy Commission. These agencies are responsible for approximately 99.2 percent of all research and development work performed outside the agencies under prime contracts and grants awarded by the Federal Government. Excludes unallocated funds]

STATE	Rank	Amount	Industry ¹	Educational institutions ¹	Non-profit organizations ¹	Other performers ²
United States.....	(X)	9,864,142	7,929,673	1,488,916	421,438	24,115
Alabama.....	17	137,314	127,569	7,302	2,257	186
Alaska.....	41	5,554	59	4,762	48	685
Arizona.....	16	139,460	131,440	4,864	2,827	320
Arkansas.....	32	17,133	14,007	2,744	81	301
California.....	1	3,807,821	3,239,856	426,778	137,540	3,647
Colorado.....	12	221,581	201,859	14,889	4,082	751
Connecticut.....	21	122,985	102,974	17,516	2,270	225
Delaware.....	28	24,400	23,236	1,150	104	-
Florida.....	9	247,808	230,727	14,808	1,343	930
Georgia.....	33	15,341	5,589	9,208	135	409
Hawaii.....	45	4,126	996	2,255	692	183
Idaho.....	27	27,621	21,453	5,901	60	147
Illinois.....	13	191,143	63,922	105,537	21,113	571
Indiana.....	26	49,681	31,525	16,818	1,623	215
Iowa.....	31	18,537	1,339	16,364	707	127
Kansas.....	30	20,380	13,303	6,383	646	48
Kentucky.....	40	5,647	369	4,976	179	123
Louisiana.....	15	181,904	171,077	9,679	1,045	163
Maine.....	48	2,997	156	943	1,711	157
Maryland ³	4	445,055	323,620	89,065	31,135	1,235
Massachusetts.....	3	451,918	214,534	175,226	61,381	777
Michigan.....	19	133,518	89,865	39,233	3,472	948
Minnesota.....	25	98,853	45,584	18,632	4,106	531
Mississippi.....	46	4,008	302	3,448	94	164
Missouri.....	10	232,842	214,460	14,372	3,455	525
Montana.....	44	4,799	3,006	1,336	71	386
Nebraska.....	47	3,665	308	3,086	71	200
Nevada.....	20	124,474	111,921	12,324	3	226
New Hampshire.....	35	14,169	10,692	3,384	49	74
New Jersey.....	8	287,768	255,227	28,770	2,853	908
New Mexico.....	11	226,207	141,250	83,451	1,083	423
New York.....	2	917,419	711,615	126,725	75,896	3,183
North Carolina.....	29	21,972	3,512	13,681	4,050	729
North Dakota.....	50	2,284	1,165	926	80	113
Ohio.....	14	185,735	140,332	28,577	16,274	552
Oklahoma.....	36	13,058	5,489	6,479	802	288
Oregon.....	37	12,630	1,322	9,230	1,614	464
Pennsylvania.....	5	348,986	276,669	50,581	21,096	640
Rhode Island.....	39	9,711	2,126	7,105	356	124
South Carolina.....	34	14,089	12,451	2,085	46	107
South Dakota.....	38	12,216	11,112	983	40	81
Tennessee.....	18	133,623	121,045	10,523	1,780	275
Texas.....	6	330,870	208,163	27,062	5,035	610
Utah.....	22	120,019	110,970	8,774	99	176
Vermont.....	43	4,904	2,256	2,540	25	74
Virginia.....	24	73,104	60,290	9,559	3,047	208
Washington.....	7	321,273	301,886	18,108	1,053	226
West Virginia.....	42	5,434	1,062	2,312	1,796	264
Wisconsin.....	23	95,024	74,504	18,356	2,083	81
Wyoming.....	49	2,342	1,470	537	-	335

- Entry represents zero. X Not applicable.

¹ Includes awards for operation of contract research centers.

² Includes all other performers not otherwise classified, including State and local governments and private individuals not associated with institutions or companies.

³ Includes District of Columbia.

Source: U.S. Congress, House, Committee on Science and Astronautics. *Government and Science, No. 4: Geographic Distribution of Federal Research and Development Funds*. Report of the Subcommittee on Science, Research and Development, 88th Congress, 2d session. 1964. Data from the National Science Foundation.

No. 762. FUNDS FOR PERFORMANCE OF TOTAL INDUSTRIAL RESEARCH AND DEVELOPMENT, BY INDUSTRY AND SOURCE OF FUNDS: 1960 TO 1963

[In millions of dollars. Includes Alaska and Hawaii. See headnote, table 760].

INDUSTRY	TOTAL FUNDS ¹				FEDERAL FUNDS				PRIVATE INDUSTRY FUNDS			
	1960	1961	1962	1963 (prel.)	1960	1961	1962	1963 (prel.)	1960	1961	1962	1963 (prel.)
Total	10,509	10,908	11,544	12,723	5,081	5,240	5,524	7,345	4,428	4,668	5,020	5,378
Food and kindred products.....	102	122	127	135	9	16	5	(NA)	63	117	121	(NA)
Textiles and apparel.....	38	30	32	34	(NA)	37	20	2	20	(NA)	(NA)	32
Lumber, wood products, and furniture.....	10	10	10	(NA)	(NA)	(NA)	(NA)	(NA)	9	(NA)	(NA)	(NA)
Paper and allied products.....	56	59	65	71	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	71
Chemicals and allied products.....	936	1,109	1,184	1,253	132	232	260	264	804	877	924	989
Petroleum refining and extraction ²	290	295	305	315	16	19	20	20	274	276	285	295
Rubber products.....	130	136	133	146	37	39	30	39	83	97	103	107
Stone, clay, and glass products.....	6	12	113	122	(NA)	(NA)	(NA)	(NA)	(NA)	88	101	(NA)
Primary metals.....	176	178	178	191	15	18	13	12	161	157	164	179
Fabricated metal products.....	144	135	149	162	36	38	29	29	108	97	120	133
Machinery.....	532	864	921	977	377	281	280	264	555	583	641	713
Electrical equipment and communication ²	2,406	2,297	2,381	2,483	1,594	1,465	1,501	1,562	812	832	880	921
Motor vehicles and other transportation equipment.....	2,890	3,944	1,011	7,103	217	225	280	289	673	718	731	814
Aircraft and missiles.....	3,558	3,904	4,140	4,835	3,490	3,490	3,676	4,371	378	414	463	464
Professional and scientific instruments.....	396	382	450	497	202	175	208	232	194	207	241	265
Other industries ³	309	346	344	399	216	252	222	261	255	205	181	395

- Entry represents zero. NA Not available.

¹ Includes basic research, applied research, and development.

² Excludes geological and geophysical exploration activities of petroleum companies.

³ These 2 industries have been combined because of the similarity of their research and development activities.

⁴ Includes data for all other manufacturing and nonmanufacturing industries not specifically listed and industry data specified as not available.

Sources: National Science Foundation; annual report, *Research and Development in Industry*.

No. 763. SCIENTISTS AND ENGINEERS IN PRIVATE INDUSTRY, BY INDUSTRY AND OCCUPATION: 1963

[As of January. Includes Alaska and Hawaii. Not comparable with survey data published by Dept. of Labor, Bureau of Labor Statistics, for 1962 and prior years. Estimated to nearest hundred]

INDUSTRY	Total	Engi- neers	Chem- ists	Phys- icists	Metal- lurgists	Earth scien- tists	Math- emati- cians	Life scien- tists	Other scien- tists ¹
ALL SCIENTISTS AND ENGINEERS									
All industries.....	871,300	711,600	74,300	14,500	11,900	12,300	20,400	18,400	8,000
Ordinance and accessories.....	52,900	46,200	1,100	2,200	500	(Z)	2,100	300	400
Chemicals and allied products.....	85,100	84,600	35,300	1,200	500	300	900	9,800	2,600
Petroleum prod. and extraction.....	35,800	22,500	3,800	200	(Z)	8,800	200	300	(Z)
Primary and fabricated metal products.....	57,500	45,000	3,400	400	5,600	200	800	300	1,700
Machinery.....	76,400	69,600	1,400	900	1,000	100	2,200	(Z)	280
Communication equipment.....	76,700	71,800	800	1,700	1,100	(Z)	2,200	(Z)	400
Other electrical equipment.....	60,600	64,200	2,100	1,700	600	(Z)	600	(Z)	300
Aircraft and parts.....	83,000	76,100	1,400	1,100	1,200	200	2,000	100	400
Other transp. equip., and other mfg. instruments and related products.....	84,900	63,700	14,500	500	900	(Z)	900	3,900	500
Mining, transp., and pub. util- ities, and other nonmfg.....	32,500	27,800	2,200	1,100	100	600	300	200	100
Services.....	116,200	108,500	2,800	500	600	1,100	4,000	1,400	300
	101,700	84,500	5,700	3,000	800	900	3,800	2,000	900
R&D SCIENTISTS AND ENGINEERS									
All industries.....	344,900	260,900	43,800	12,500	4,800	1,600	10,900	7,200	3,200
Ordinance and accessories.....	31,000	26,100	800	2,000	300	(Z)	1,500	200	200
Chemicals and allied products.....	40,500	11,400	21,900	900	300	100	400	5,000	600
Petroleum prod. and extraction.....	6,100	3,100	1,800	100	(Z)	800	100	200	(Z)
Primary and fabricated metal products.....	12,500	8,500	1,300	400	1,300	(Z)	100	200	600
Machinery.....	29,000	25,900	1,000	700	400	(Z)	900	100	(Z)
Communication equipment.....	56,600	52,300	500	1,600	100	(Z)	1,800	(Z)	200
Other electrical equipment.....	30,700	26,900	1,500	1,500	400	(Z)	300	(Z)	100
Aircraft and parts.....	53,800	48,600	1,000	1,000	800	(Z)	1,800	100	400
Other transp. equip., and other mfg. instruments and related products.....	26,600	16,400	7,800	500	300	(Z)	300	800	400
Mining, transp., and pub. util- ities, and other nonmfg.....	14,000	11,200	1,600	900	100	(Z)	200	(Z)	100
Services.....	6,100	4,500	700	(Z)	100	100	400	100	100
	38,000	26,100	4,000	2,900	700	500	3,000	400	500

Z Less than 50. ¹ Excludes psychologists and social scientists.

Source: National Science Foundation. Data from Dept. of Labor, Bureau of Labor Statistics.

No. 764. SCIENTISTS, ENGINEERS, AND TECHNICIANS EMPLOYED BY STATE GOVERNMENT AGENCIES, BY STATES: 1962

STATE	Scien- tists	Engi- neers	Techni- cians	STATE	Scien- tists	Engi- neers	Techni- cians
United States.....	14,035	30,048	55,501	Missouri.....	192	753	1,150
Alabama.....	192	495	2,075	Montana.....	131	297	543
Alaska.....	143	225	236	Nebraska.....	83	249	652
Arizona.....	134	87	573	Nevada.....	93	159	295
Arkansas.....	131	160	425	New Hampshire.....	50	322	52
California.....	1,888	5,559	5,144	New Jersey.....	288	893	448
Colorado.....	143	327	526	New Mexico.....	131	61	595
Connecticut.....	190	613	630	New York.....	768	2,658	2,889
Delaware.....	39	64	182	North Carolina.....	285	705	938
Florida.....	495	578	696	North Dakota.....	145	148	257
Georgia.....	129	898	1,402	Ohio.....	326	802	3,101
Hawaii.....	434	150	237	Oklahoma.....	67	130	377
Idaho.....	344	100	299	Oregon.....	496	617	833
Illinois.....	347	1,438	1,141	Pennsylvania.....	564	870	3,851
Indiana.....	219	400	623	Rhode Island.....	95	86	265
Iowa.....	67	303	1,065	South Carolina.....	153	823	339
Kansas.....	104	399	1,007	South Dakota.....	67	56	118
Kentucky.....	224	632	1,444	Tennessee.....	278	303	1,851
Louisiana.....	110	415	1,745	Texas.....	594	1,235	4,913
Maine.....	207	258	210	Utah.....	180	202	543
Maryland.....	215	495	703	Vermont.....	101	277	131
Massachusetts.....	504	685	1,222	Virginia.....	582	691	2,111
Michigan.....	487	835	2,167	Washington.....	404	986	801
Minnesota.....	415	508	1,287	West Virginia.....	124	111	1,008
Mississippi.....	292	215	811	Wisconsin.....	223	532	1,069
				Wyoming.....	102	233	512

Source: Dept. of Labor, Bureau of Labor Statistics; *Employment of Scientific and Technical Personnel in State Government Agencies, 1968* (Bulletin No. 1412).

No. 765. SCIENTISTS, BY FIELD OF EMPLOYMENT—STATES AND OTHER AREAS: 1964

[The National Register of Scientific and Technical Personnel does not include all scientists in the United States because reporting is voluntary. See text, p. 644]

STATE OR OTHER AREA	Total	Agricultural sciences	Biological sciences	Psychology	Earth sciences and meteorology	Mathematics and statistics	Physics	Chemistry	Economics	Other
Total.....	223,854	9,526	27,135	16,804	23,417	20,254	26,698	63,053	12,143	24,824
Alabama.....	1,887	174	222	84	118	207	222	536	75	249
Alaska.....	452	99	61	6	199	20	14	25	8	20
Arizona.....	1,768	186	228	185	290	196	197	255	100	181
Arkansas.....	770	145	140	50	88	43	33	168	44	59
California.....	26,645	825	2,827	2,321	2,066	3,464	4,586	5,620	1,171	3,215
Colorado.....	3,656	272	359	241	1,144	256	425	538	97	324
Connecticut.....	4,149	60	429	336	199	370	610	1,424	207	505
Delaware.....	2,387	19	94	53	27	61	113	1,550	149	321
District of Columbia.....	7,175	184	669	495	989	812	1,043	977	1,206	800
Florida.....	3,708	294	640	381	426	337	374	729	154	373
Georgia.....	2,238	268	475	105	177	188	154	485	130	166
Hawaii.....	742	66	161	52	127	56	30	105	45	100
Idaho.....	814	226	115	42	83	35	70	131	33	79
Illinois.....	11,537	220	1,490	976	734	938	1,253	3,888	816	1,213
Indiana.....	4,628	153	685	353	218	419	467	1,567	272	494
Iowa.....	2,351	155	456	250	102	207	263	551	166	201
Kansas.....	2,088	107	328	208	406	172	136	447	105	179
Kentucky.....	1,545	95	251	114	150	85	96	513	68	173
Louisiana.....	3,172	169	399	97	1,047	160	150	772	110	298
Maine.....	589	68	96	47	59	53	39	139	34	54
Maryland.....	7,005	207	1,512	374	486	862	1,006	1,651	192	715
Massachusetts.....	9,540	84	1,068	721	642	993	1,978	2,577	470	1,007
Michigan.....	7,573	304	952	712	397	592	724	2,435	485	972
Minnesota.....	3,811	259	601	370	200	380	359	1,081	201	360
Mississippi.....	978	162	169	61	271	41	33	140	35	66
Missouri.....	3,722	159	490	248	340	275	304	1,189	280	437
Montana.....	797	209	131	20	214	49	19	64	35	56
Nebraska.....	1,118	119	201	97	184	125	77	156	80	79
Nevada.....	430	43	37	22	112	22	46	80	21	47
New Hampshire.....	650	65	121	30	70	49	71	135	40	69
New Jersey.....	11,844	100	796	684	243	911	1,486	5,819	427	1,378
New Mexico.....	2,023	159	119	64	424	230	530	319	36	142
New York.....	24,510	310	2,965	2,713	1,023	2,543	3,287	7,015	1,793	2,881
North Carolina.....	3,118	231	635	212	200	276	244	920	146	254
North Dakota.....	460	87	63	37	82	29	20	90	27	25
Ohio.....	10,135	176	937	729	516	747	1,150	4,124	510	1,246
Oklahoma.....	3,112	102	262	120	1,103	195	154	726	104	356
Oregon.....	2,253	576	380	179	218	181	131	342	101	195
Pennsylvania.....	12,813	256	1,428	992	597	938	1,572	4,898	641	1,491
Rhode Island.....	895	25	92	64	64	70	164	247	49	120
South Carolina.....	1,203	140	131	46	74	79	109	428	48	148
South Dakota.....	463	93	89	37	57	39	27	60	28	33
Tennessee.....	3,108	162	439	168	157	207	429	1,155	100	291
Texas.....	10,660	313	896	466	3,495	687	793	2,509	343	1,188
Utah.....	1,570	166	231	105	304	134	113	293	48	176
Vermont.....	343	35	73	28	18	34	21	71	25	33
Virginia.....	3,741	199	418	241	316	481	483	1,010	169	429
Washington.....	3,717	408	554	275	346	339	427	794	164	410
West Virginia.....	1,513	76	135	45	82	61	65	776	64	209
Wisconsin.....	3,912	287	601	295	224	378	384	1,133	222	418
Wyoming.....	717	111	87	32	335	23	13	84	14	38
Puerto Rico.....	355	11	68	19	46	18	26	86	22	59
Foreign.....	3,464	128	419	162	1,328	228	248	226	233	492

Source: National Science Foundation; *Reviews of Data on Science Resources*, Vol. 1, No. 2, December 1964. Data derived from the National Register of Scientific and Technical Personnel.

No. 766. SELECTED CHARACTERISTICS OF SCIENTISTS: 1964

[Includes Alaska and Hawaii. See headnote, table 765. For definition of median, see headnote, table 18]

CHARACTERISTIC	Number	Per- cent	Median salary	CHARACTERISTIC	Number	Per- cent	Median salary
Total	223,854	100	\$11,000	Age—Continued			
Sex:				60 years and over.....	12,386	6	(NA)
Men.....	206,751	92	11,000	Not reported.....	289	-	(X)
Women.....	17,103	8	8,400	Type of employer:			
Field of employment:				Educational institu-			
Chemistry.....	63,053	28	11,000	tions.....	77,727	35	9,600
Earth sciences.....	17,907	8	10,300	Federal Government.....	23,405	10	11,000
Meteorology.....	5,510	2	10,600	Other government.....	7,472	3	9,000
Physics.....	26,698	12	12,000	Military.....	5,522	2	7,800
Mathematics.....	17,411	8	11,000	Nonprofit organizations.....	8,722	4	12,000
Agricultural sciences.....	9,526	4	9,200	Industry and business.....	84,421	38	12,000
Biological sciences.....	27,135	12	10,700	Self-employed.....	4,277	2	15,000
Psychology.....	16,804	8	10,300	Other.....	12,308	6	(NA)
Statistics.....	2,843	1	12,000	Work activity:			
Economics.....	12,143	5	12,000	Research and develop-			
Sociology.....	2,703	1	10,100	ment.....	77,699	35	11,000
Linguistics.....	1,351	1	9,000	Management and ad-			
Other.....	20,770	9	11,100	ministration.....	46,255	21	14,500
Highest degree:				Teaching.....	41,209	18	8,900
Ph. D.....	79,372	35	12,000	Production and inspec-			
Professional medical.....	5,925	3	15,500	tion.....	16,582	7	9,800
Master's.....	61,222	27	10,000	Other.....	42,109	19	(NA)
Bachelor's.....	72,364	32	10,000	Years of experience:			
Less than a bachelor's.....	2,878	1	10,300	1 year or less.....	8,303	4	7,400
Not reported.....	2,093	1	10,800	2 to 4 years.....	34,864	16	8,000
Age: ¹				5 to 9 years.....	45,249	20	9,600
20 to 29 years.....	42,349	19	(NA)	10 to 14 years.....	42,705	19	11,500
30 to 39 years.....	80,044	36	(NA)	15 to 19 years.....	26,304	12	12,500
40 to 49 years.....	60,557	27	(NA)	20 years or more.....	53,778	24	14,000
50 to 59 years.....	28,229	13	(NA)	Not reported.....	12,651	6	10,900

- Entry represents zero. NA Not available. X Not applicable. ¹ Median age, 38.Source: National Science Foundation; *Reviews of Data on Science Resources*, Vol. 1, No. 2, December 1964, and unpublished data.

No. 767. SCIENCE DOCTORATES CONFERRED, BY FIELD OF SCIENCE: 1958 to 1964

FIELD OF SCIENCE	1958	1959	1960	1961	1962	1963	1964 (prel.)
Total	6,128	6,536	6,908	7,439	8,266	9,308	10,160
Life sciences.....	1,585	1,627	1,776	1,802	2,051	2,154	2,320
Agricultural and related.....	255	296	340	353	413	400	420
Medical sciences.....	78	95	84	99	109	112	120
Anatomy, cytology, physiology, and embryology.....	272	307	235	272	341	388	430
Botany.....	167	164	196	188	202	196	210
Biochemistry.....	231	208	272	285	289	309	330
Microbiology.....	202	168	179	181	198	231	250
Zoology.....	228	220	276	201	300	286	310
Miscellaneous biological sciences.....	162	169	188	163	199	233	250
Physical sciences.....	2,558	2,846	3,044	3,367	3,890	4,506	4,980
Mathematics.....	238	301	290	352	410	538	600
Physics.....	504	523	574	602	765	828	910
Chemistry.....	969	1,077	1,105	1,139	1,182	1,358	1,500
Geo-sciences.....	199	236	280	258	252	328	360
Engineering.....	658	710	826	1,006	1,281	1,454	1,610
Social sciences.....	1,985	2,063	2,088	2,270	2,325	2,648	2,860
Psychology.....	780	809	762	870	873	973	1,060
Sociology.....	174	183	156	183	195	219	240
Economics.....	322	338	375	434	407	497	530
History.....	314	351	365	362	389	432	470
Political science.....	226	230	251	264	266	317	330
Anthropology and archaeology.....	73	67	75	59	84	102	110
Miscellaneous social sciences.....	96	85	104	98	111	108	120

Source: National Science Foundation. Data from National Research Council; *Doctorate Production in United States Universities, 1950-1962*, and unpublished data.

No. 768. PATENTS AND TRADEMARKS: 1941 TO 1964

[For years ending December 31. Covers patents issued to citizens of United States and residents of foreign countries. For information on copyrights, see table 737. See also *Historical Statistics, Colonial Times to 1957*, series W 66-76 and W 77-78]

ITEM	1941-45	1946-50	1951-55	1956-60	1960	1961	1962	1963	1964
Patent applications filed.	294,273	400,342	379,053	410,389	84,475	88,151	90,360	91,091	93,170
Inventions.....	265,417	360,095	351,649	384,782	70,590	83,100	85,029	85,724	87,597
Designs.....	27,536	39,127	25,951	23,865	4,525	4,714	4,897	4,908	5,269
Botanical plants.....	262	398	467	584	131	107	151	145	120
Reissues.....	1,058	722	986	1,158	229	230	283	264	194
Patents issued ¹	184,492	163,034	208,964	251,872	49,986	51,152	53,284	48,970	50,390
Inventions ¹	164,360	144,076	192,651	237,469	47,170	48,368	55,691	45,679	47,376
Individuals.....	61,127	58,957	78,459	76,589	13,069	13,383	15,470	12,525	12,504
Corporations:									
United States.....	95,107	78,376	100,278	133,948	28,187	28,351	32,560	26,632	27,836
Foreign.....	5,147	4,669	10,537	21,043	4,670	5,161	6,380	5,501	³ 5,864
U.S. Government ⁴	346	1,761	3,359	5,889	1,244	1,473	1,281	1,021	1,182
Designs.....	18,880	13,016	15,084	13,024	2,543	2,487	2,300	2,965	2,686
Botanical plants.....	229	334	441	567	116	108	91	129	128
Reissues.....	1,023	608	788	812	157	189	202	107	200
Certificates of trade-									
marks issued ¹	52,191	85,611	100,942	108,246	22,367	19,953	19,832	22,395	22,789
Trademarks.....	34,435	61,339	83,311	90,727	18,434	16,595	17,023	19,740	20,087
Trademark renewals.....	17,756	24,272	17,631	17,519	3,933	3,358	2,809	2,655	2,702

¹ Excludes all registration numbers left blank due to withdrawal of patent or trademark before issue.

² Since 1942, includes patents issued to the Alien Property Custodian.

³ Includes 147 foreign government patents.

⁴ Excludes patents issued to the Alien Property Custodian.

Source: Dept. of Commerce, Patent Office; unpublished data. Fiscal-year figures are published in the *Annual Report of the Commissioner of Patents*.

No. 769. ATOMIC ENERGY COMMISSION—LICENSES AND AGREEMENTS: 1950 TO 1964

ITEM	1950	1955	1960	1961	1962	1963	1964
Licenses in effect:							
Power reactors:							
Construction permits and authorizations.....	(X)	—	11	11	5	4	5
Licenses to operate and operating authorizations.....	(X)	—	3	4	11	13	15
Research and test reactors:							
Construction permits.....	(X)	4	18	15	10	11	5
Licenses to operate.....	(X)	2	47	57	64	68	73
Critical experiment facilities:							
Construction permits ¹	(X)	2	1	2	1	3	1
Licenses to operate.....	(X)	—	14	14	15	15	16
Operator licenses (includes senior) ²	(X)	3	563	689	837	1,205	1,554
Licenses to possess special nuclear materials ³	(X)	7	362	469	454	511	571
Licenses to possess source materials ³	647	1,763	1,153	599	460	499	467
Licenses to possess byproduct materials ³	(X)	(X)	8,429	9,090	7,910	7,895	8,073
Licenses to export reactors issued.....	(X)	—	3	4	4	1	7
Source material export licenses issued.....	(NA)	715	696	228	126	127	131
Organizations with byproduct (radioisotope) licenses ⁴	614	3,016	5,940	6,595	5,881	5,889	5,871
Medical institutions and physicians.....	206	1,173	2,568	2,807	2,278	2,184	2,192
Industrial concerns.....	206	1,266	1,817	1,997	1,783	1,825	1,951
Colleges and universities.....	123	227	297	343	314	307	314
Federal and State laboratories.....	49	258	1,153	1,329	1,416	1,487	1,322
Foundations, institutions, and other.....	30	92	105	119	90	86	92
Access permits in effect	(X)	602	1,006	823	688	596	549
Effective agreements for foreign cooperation	—	22	54	54	52	53	55
Research.....	—	19	27	24	22	22	22
Research and power.....	—	3	13	13	13	13	14
Mutual defense.....	—	—	9	12	12	12	12
Other.....	—	—	5	5	5	6	7

— Entry represents zero. NA Not available. X Not applicable.

¹ Includes permits for production facilities.

² Beginning 1963, each reactor licensee was required to have available a "senior" reactor operator.

³ Beginning 1962, State governments began to take over a part of materials licensing under agreements with the AEC. As of Dec. 31, 1964, 9 such Agreement States had issued or assumed control of 3,821 material licenses not reflected in above figures.

⁴ Beginning 1960, includes only parent organizations, which are issued single basic licenses. Subordinate organizations at various locations included for prior years.

Source: Atomic Energy Commission; *Semiannual Report*, *Annual Report*, and unpublished data.

No. 770. ATOMIC ENERGY COMMISSION—FINANCES AND EMPLOYMENT: 1950 TO 1964

[Money figures in millions of dollars. For years ending June 30]

ITEM	1950	1955	1960	1961	1962	1963	1964
Appropriations received	703	1,210	2,650	2,667	2,547	3,135	2,743
Operations	(NA)	1,099	2,387	2,456	2,352	2,872	2,343
Plant equipment	(NA)	111	263	211	195	263	400
Plant investment, year end	2,104	6,487	7,345	7,665	7,669	8,233	8,578
Completed plant	1,809	5,868	7,018	7,202	7,365	7,652	8,170
Production plants	1,251	4,046	5,458	5,454	5,345	5,448	5,497
Research facilities	184	707	1,271	1,434	1,714	1,886	2,148
Communities	262	299	86	78	77	79	75
Other	112	206	203	236	229	239	449
Construction in progress	295	620	327	463	504	582	409
Cost of operations¹	415	1,290	2,619	2,613	2,696	2,713	2,739
Procurement of raw materials	39	194	717	637	637	478	326
Production of nuclear materials	130	588	731	733	689	652	636
Weapons development and fabrication	112	250	505	512	706	697	806
Development of nuclear reactors	31	115	399	437	433	507	561
Civilian	1	22	100	102	94	88	98
Military	9	53	187	201	130	145	139
Power for space	—	(²)	27	47	96	145	181
Other	21	40	85	87	113	129	143
Physical research	29	48	133	154	172	199	216
Fusion power	—	5	32	30	25	26	23
High energy physics	5	9	32	48	50	73	90
Other	24	35	68	76	88	99	103
Biology and medicine research	18	29	49	54	63	71	77
Community operations (net)	20	10	7	4	4	5	5
Administrative expenses	23	34	51	58	61	67	73
Other expenses and income (net)	13	13	27	24	31	38	40
Employment	63,739	112,618	122,718	122,989	126,623	135,278	136,620
Federal Government	4,941	6,076	6,907	6,846	6,863	7,120	7,268
Contractor operating	39,096	82,936	104,612	103,313	106,394	115,012	117,257
Contractor construction and design	19,703	23,606	11,199	12,830	13,366	13,146	12,095

- Entry represents zero. NA. Not available. ¹ Includes depreciation.² Costs incurred are included in other categories.Source: Atomic Energy Commission; *Financial Report*.

No. 771. ATOMIC ENERGY COMMISSION—SELECTED DATA ON NUCLEAR REACTORS, URANIUM, RADIOISOTOPES, AND HEAVY WATER: 1959 TO 1964

[For years ending June 30, except as noted]

ITEM	1959	1960	1961	1962	1963	1964
NUCLEAR REACTORS						
Development costs	355.6	399.3	437.3	433.2	507.3	561.2
Civilian power reactors	78.4	100.0	102.3	94.3	88.1	98.5
Military reactors	180.6	186.8	201.2	129.7	145.7	138.8
Space propulsion	14.0	15.4	26.1	42.5	69.7	94.8
Merchant ship reactors	2.4	4.2	5.4	9.0	7.5	6.0
Auxiliary power sources	7.7	11.5	21.3	53.6	75.2	86.6
General	72.5	81.4	82.0	104.1	121.1	136.5
Electrical generation: ¹						
Capacity—net electrical megawatts	257	365	399	846	998	1,105
Gross output—1,000 megawatt hours	234	591	1,844	2,471	3,807	4,844
AEC procurement: URANIUM						
Quantity						
Domestic sources—tons of U ₃ O ₈	33,326	34,582	32,260	29,362	26,981	18,655
Canadian sources—tons of U ₃ O ₈	15,162	16,667	17,758	17,255	15,759	12,584
Overseas sources—tons of U ₃ O ₈	13,506	13,443	10,251	7,728	7,017	2,239
Cost—mill. dol.	4,668	4,672	4,251	4,379	4,205	3,832
Domestic sources—mill. dol.	689	704	627	537	480	328
Canadian sources—mill. dol.	285	293	303	283	248	202
Overseas sources—mill. dol.	294	296	224	154	137	39
Estimated ore reserves ² —tons contained U ₃ O ₈	241,000	238,000	217,000	167,000	160,000	162,000
Rated ore milling capacity ² —tons per day	22,000	22,000	22,500	21,000	18,000	15,000
RADIOISOTOPES³						
Sales—\$1,000	2,498	2,209	1,803	1,311	1,192	1,279
Exports ^{1,4} —\$1,000	1,283	1,286	1,741	1,895	2,548	2,919
Imports ^{1,5} —\$1,000	1,663	1,758	1,694	2,431	1,897	2,222
HEAVY WATER						
Sales by AEC—tons	59	86	99	78	38	32
Value—\$1,000	3,327	4,867	5,560	4,533	1,937	1,558

¹ Calendar year data. ² As of December.³ The Oak Ridge National Laboratory is the AEC's principal distributor of radioisotopes. Sales are made also by other AEC laboratories, and by commercial suppliers. Sales figures include AEC sales made to commercial suppliers but not by them, and also sales by ORNL to other AEC organizations. Shipments to foreign countries are comprised of shipments made by AEC laboratories and by commercial suppliers.⁴ Domestic only. ⁵ Through 1963 includes stable isotopes.Source: Atomic Energy Commission; *Semiannual Report*, *Annual Report*, and unpublished data; and Dept. of Commerce, Bureau of the Census; annual reports, FT 410, *U.S. Exports—Commodity by Country*, and FT 110, *U.S. Imports of Merchandise for Consumption*, and unpublished data.

No. 772. EMPLOYMENT IN THE ATOMIC ENERGY FIELD, BY OCCUPATION AND SEGMENT: 1964

[Based on a survey of the atomic energy employment in establishments covering about four-fifths of all workers in the atomic energy field. Excludes persons in uranium mining, in non-AEC owned facilities of educational institutions, and in nuclear facilities construction]

SEGMENT	Total	Engineers	Scientists	Technicians	All other
All activities.....	140,540	20,370	10,992	22,077	87,101
Commission laboratory and research facilities.....	46,739	7,848	6,362	9,535	22,994
Atomic energy defense production facilities.....	41,099	3,498	1,635	3,936	32,030
Reactor and reactor component design and manufacture.....	15,585	4,674	974	3,093	6,844
Production of feed materials.....	8,621	572	467	592	6,990
Nuclear instrument manufacturing.....	3,853	650	246	884	2,064
Design and engineering of nuclear facilities.....	2,462	333	97	628	904
Uranium milling.....	2,255	136	30	123	1,966
Fuel element fabrication and recovery activities.....	2,236	230	64	429	1,513
Private research laboratories.....	2,156	359	701	609	487
Production of special materials for use in reactors.....	1,787	267	91	274	1,125
Particle accelerator manufacturing.....	1,342	256	77	388	621
Power reactor operation and maintenance.....	1,060	220	26	226	597
Industrial radiographic service.....	600	28	8	546	18
Processing and packaging radioisotopes.....	348	22	113	139	74
Radioactive waste disposal.....	79	5	3	22	49
Miscellaneous.....	10,339	763	98	653	8,825

Source: Dept. of Labor, Bureau of Labor Statistics; unpublished data.

No. 773. SHIPMENTS OF ATOMIC ENERGY EQUIPMENT AND PRODUCTS: 1960 AND 1963

[In thousands of dollars. Includes Alaska and Hawaii. Excludes construction expenditures, engineering and design costs, research and development expenditures, and products used in atomic energy work which are not uniquely designed for nuclear applications]

ITEM	1960			1963		
	Total	U.S. Government agencies	Other, including export	Total	U.S. Government agencies	Other, including export
Total.....	287,570	(NA)	(NA)	289,535	(NA)	(NA)
Nuclear reactors.....	12,389	(D)	(D)	2,561	(D)	(D)
Reactor components and equipment:						
Primary vessels and tanks.....	11,873	10,064	1,809	17,163	16,931	232
Control rod drive mechanisms and components.....	16,688	13,322	3,366	10,876	8,660	2,216
Accessory instrumentation for reactor control.....	17,746	11,515	6,231	17,074	13,066	4,008
Heat exchangers and condensers.....	19,019	11,932	7,087	17,832	6,069	11,763
Pressurizers, components, and auxiliary equipment.....	2,034	(D)	(D)	6,380	2,960	3,420
Pumps.....	21,390	(D)	(D)	9,477	7,401	2,076
Valves.....	8,319	6,977	1,342	20,435	18,285	2,150
Fuel handling equipment.....	1,950	1,011	939	2,968	2,229	739
Complete reactor fuel elements and control rods shipped directly for installation or use in a reactor.....	81,165	73,909	7,256	53,791	35,092	18,699
Partially fabricated reactor fuel element materials and control rods not shipped directly for installation or use in a reactor.....	14,335	11,116	3,219	18,356	11,115	7,241
Core structurals (barrels, cans, boxes, plates, etc., not included above).....	4,067	3,516	551	3,219	2,410	800
Reactor moderators, coolants, and reflectors.....	3,278	1,669	1,609	1,872	2,428	(D)
Other specialized reactor components and equipment.....	5,492	3,556	1,936	10,147	6,597	3,550
Hot laboratory equipment.....	4,158	2,772	1,386	5,319	4,332	987
Shielding.....	5,704	3,066	2,638	4,091	2,341	1,750
Radiation detection and monitoring devices ²	31,156	11,781	19,375	52,682	(NA)	(NA)
Radioactive isotopes shipped from non-AEC plants producing isotopes.....	976	55	921	3,123	351	2,772
Radiation sources and other radioactive materials produced from purchased isotopes.....	4,158	652	3,506	12,479	1,871	10,608
Control and measuring devices containing radioactive isotopes.....	10,391	2,860	7,531	8,668	(NA)	(NA)
Conversion of enriched uranium metal and compounds (excluding production or conversion of normal and depleted uranium) ⁴	11,282	5,923	5,359	10,422	7,051	3,371

D Withheld to avoid disclosing figures for individual companies. NA Not available.

¹ Includes value of some products for which separate figures are not shown to avoid disclosing figures for individual companies. ² Atomic Energy Commission only. ³ Includes survey monitoring, control devices, and counting equipment. ⁴ Includes commercial irradiation service.

Source: Dept. of Commerce, Bureau of the Census; *Current Industrial Reports*, Series M38Q(63)-1.

Space Programs—Space Flights

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No. 774. FEDERAL SPACE PROGRAM—EXPENDITURES, BY AGENCY: 1957 TO 1966

[In millions of dollars. For years ending June 30]

AGENCY	1957	1958	1959	1960	1961	1962	1963	1964	1965 est.	1966 est.
Total	150	249	434	888	1,468	2,387	4,079	5,930	6,657	6,890
National Aero. and Space Admin. ¹	76	89	59	329	694	1,226	2,517	4,131	4,837	5,032
Department of Defense.....	48	136	341	518	710	1,029	1,368	1,564	1,570	1,610
Atomic Energy Commission.....	19	20	33	41	64	130	181	220	231	228
Weather Bureau.....	—	—	—	—	—	1	12	12	15	17
National Science Foundation.....	7	4	2	—	—	1	1	3	3	4

— Entry represents zero.

¹ Beginning 1959, excludes amounts for aircraft technology.

Source: U.S. President, *Message . . . Transmitting Report on This Nation's Aeronautics and Space Activities for the Calendar Year 1964 . . .* 89th Congress, 1st session.

No. 775. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION—EXPENDITURES FOR RESEARCH AND DEVELOPMENT: 1962 TO 1966

[In millions of dollars. For years ending June 30. Covers activities aimed to develop new knowledge or apply existing knowledge to new uses. Generally excludes expenditures for routine testing, experimental production, and information and training programs. Expenditures for facilities cover land, buildings, and major equipment]

PROGRAM	PERFORMANCE					FACILITIES				
	1962	1963	1964	1965 est.	1966 est.	1962	1963	1964	1965 est.	1966 est.
Total	1,143	2,327	3,733	4,376	4,694	114	225	438	524	406
Manned space flight.....	509	1,357	2,436	2,715	3,118	56	160	332	370	268
Space applications.....	61	92	111	109	108	—	—	1	2	1
Unmanned investigations.....	340	460	603	659	680	20	23	38	34	23
Space technology.....	137	278	382	455	394	23	24	50	55	51
Aircraft technology.....	29	34	39	61	66	3	2	1	2	3
Supporting operations.....	69	105	162	379	330	13	17	16	61	61

— Entry represents zero.

Source: Executive Office of the President, Bureau of the Budget; unpublished data.

No. 776. U.S. ORBITAL MANNED SPACECRAFT: 1962 THROUGH JUNE 1965

CHARACTERISTIC OF VEHICLE	MERCURY ATLAS				GEMINI	
	VI	VII	VIII	IX	III	IV
Astronaut.....	Glenn	Carpenter	Schirra	Cooper	Grissom and Young	McDivitt and White
Launching date.....	2-20-62	5-24-62	10-3-62	5-15-63	3-23-65	6-3-65
Vehicle lift-off weight.....1,000 lb.	260	260	260	260	340	340
Vehicle dimensions ¹.....ft.	93H-16D	93H-16D	93H-16D	93H-16D	109H-10D	109H-10D
Payload dimensions ¹.....ft.	9.5H-6D	9.5H-6D	9.5H-6D	9.6H-6D	18.6H-10D	18.6H-10D
Payload weight.....lb.	² 2,000	² 2,075	² 3,030	² 3,000	² 7,186	² 7,000
Maximum velocity.....mph.	³ 17,545	17,546	17,550	³ 17,500	17,500	17,528
Perigee.....miles.	97.6	100	100	100	100	101
Apogee.....miles.	159.5	166.8	176	166.1	139	179
Orbits.....number.	3	3	6	22	3	67
Lifetime.....hrs:min.	4:56	4:56	9:13	34:20	4:53	97:57

¹ H=height; D=diameter.

² Weight in orbit. Lift-off (in pounds): 4,100, 4,224, 4,325, 4,000, 7,000, and 7,000, respectively; recovery (in pounds): 2,400, 2,480, 2,440, 2,460, 4,700, and 4,700, respectively. ³ Average.

Source: National Aeronautics and Space Administration; *Space Activities Summary*, various dates.

No. 777. U.S.S.R. ORBITAL MANNED SPACECRAFT: 1961 THROUGH MARCH 1965

[Includes all known U.S.S.R. launchings. Unofficial data from U.S. and Soviet press and radio]

CHARACTERISTIC OF VEHICLE	VOSTOCK						VOSKHOD	
	Spacecraft VI	II	III	IV	V	VI	I	II
Astronaut.....	Gagarin	Titov	Nikolaev	Popovich	Bykovsky	Tereshkova	Komarov, Yegorov, and Feoktistov	Belyayev and Leonov
Launching date.....	4-12-61	8-6-61	8-11-62	8-12-62	6-12-63	6-14-63	10-12-64	3-18-65
Payload dimensions ¹	20H	20H-12-14D	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Payload wt.....lb.	10,418	10,430	10,000	10,000	10,000	10,000	(NA)	(NA)
Max. velocity.....mph.	17,000	17,750	(NA)	(NA)	(NA)	(NA)	17,500	(NA)
Perigee.....miles.	108.8	110.3	107.4	111	99	108	111	107.2
Apogee.....miles.	187.7	115.3	137.2	158	120	135	254	306.9
Orbit.....number	1	17.5	64+	48+	81	48	16	17
Lifetime.....hrs: min.	1: 48	25: 48	94: 25	70: 59	119: 04	70: 50	24: 0	26: 2

NA Not available. ¹H=height; D=diameter.Source: National Aeronautics and Space Administration; *Space Activities Summary*, various dates.

No. 778. SPACE VEHICLES IN EARTH ORBIT: 1965

[Reflects selected data computed and compiled by the Goddard Space Flight Center, North American Air Defense Command (NORAD), and Smithsonian Astrophysical Observatory as of March 31, 1965]

COUNTRY OF LAUNCHING AND VEHICLE	Launching date	Ap-prox. wt. (lbs.)	Per-igee (mi.)	Ap-ogee (mi.)	Or-bital period (min.)	COUNTRY OF LAUNCHING AND VEHICLE	Launching date	Ap-prox. wt. (lbs.)	Per-igee (mi.)	Ap-ogee (mi.)	Or-bital period (min.)
U.S.						U.S.—Con.					
Explorer 1.....	2-1-58	31	209	985	104.3	Centaur 2.....	11-27-63	10,200	307	1,089	107.8
Vanguard 1.....	3-17-58	3	402	2,449	134.0	Explorer 19.....	12-10-63	95	334	1,446	115.3
Vanguard 2.....	2-17-59	22	345	2,041	125.4	Tiros 8.....	12-21-63	265	440	465	99.0
Vanguard 3.....	9-18-59	100	320	2,307	129.8	GGSE.....	1-11-64	70	566	580	103.4
Explorer 7.....	10-13-59	92	346	603	101.1	EGRS.....	1-11-64	40	566	580	103.4
Tiros 1.....	4-1-60	270	428	467	99.2	Solar Rad.....	1-11-64	70	566	581	103.5
Transit 1B.....	4-13-60	265	217	352	93.7	Relay 2.....	1-21-64	172	1,308	4,594	194.7
Midas 2.....	5-24-60	5,000	293	301	94.3	Echo 2.....	1-25-64	781	641	795	108.4
Transit 2A ¹	6-22-60	223	385	654	101.6	Saturn 5.....	1-25-64	37,700	157	372	93.2
Greb ¹	6-22-60	42	385	652	101.6	Ariel 2 ²	3-27-64	150	180	780	100.3
Echo 1.....	8-12-60	240	607	1,075	113.9	Syncom 3.....	8-19-64	145	22,164	22,312	436.2
Courier 1B.....	10-4-60	500	507	754	107.0	Explorer 20.....	8-25-64	97	540	634	103.9
Explorer 8.....	11-3-60	90	260	1,394	112.3	Nimbus 1.....	8-28-64	830	263	570	98.3
Tiros 2.....	11-23-60	280	389	451	98.2	OGO.....	9-4-64	1,073	175	92,827	64.0
Samos 2.....	1-31-61	4,100	290	339	94.7	Explorer 21.....	10-3-64	136	122	59,253	2,097.0
Explorer 10.....	3-25-61	70 (NA)	(NA)	(NA)	(NA)	Explorer 22.....	10-9-64	116	550	670	104.7
Explorer 11.....	4-27-61	82	298	1,106	107.9	Explorer 23.....	11-6-64	295	288	610	99.2
Transit 4A ²	6-20-61	175	551	617	103.8	Explorer 24.....	11-21-64	19	327	1,552	116.0
Injun-SR-3 ²	6-20-61	95	550	610	103.8	Explorer 25.....	11-21-64	90	327	1,545	116.0
Tiros 3.....	7-12-61	285	458	608	100.4	Explorer 26.....	12-21-64	101	180	16,280	456.0
Midas 3.....	7-12-61	3,500	2,064	2,218	161.5	Tiros 9.....	1-22-65	305	436	1,586	119.2
Explorer 12.....	8-16-61	83 (NA)	(NA)	(NA)	(NA)	Orb. Sol. Obs. 2.....	2-3-65	545	339	358	96.5
Midas 4.....	10-21-61	3,500	2,183	2,323	166.0	Pegasus 1.....	2-16-65	3,200	308	442	97.0
Transit 4B ¹	11-15-61	200	592	687	105.8	Early Bird 1.....	4-8-65	85	22,661	22,742	669.2
Tracac ¹	11-15-61	200	594	687	105.8	U.S.S.R.					
Tiros 4.....	2-8-62	285	442	522	100.4	Polyot 1.....	11-1-63	(NA)	214	864	102.3
Orb. Sol. Obs. 1.....	3-7-62	440	337	717	96.0	Elektron 1.....	1-30-64	(NA)	252	4,419	160.3
Ariel 1 ²	4-26-62	132	243	327	100.5	Elektron 2.....	1-30-64	(NA)	611	41,905	1,356.3
Tiros 5.....	6-10-62	286	372	598	100.5	Polyot 2.....	4-12-64	(NA)	188	266	91.6
Telstar 1.....	7-10-62	170	589	3,508	157.8	Elektron 3.....	7-10-64	(NA)	247	4,068	1,081.1
Tiros 6.....	9-18-62	281	427	441	98.7	Elektron 4.....	7-10-64	(NA)	414	41,042	1,313.8
Alouette ¹	9-29-62	320	619	640	105.5	Cosmos 41.....	8-22-64	(NA)	402	24,555	714.9
Explorer 14.....	10-2-62	89 (NA)	(NA)	(NA)	(NA)	Cosmos 42.....	8-22-64	(NA)	140	547	95.9
Explorer 15.....	10-27-62	100	191	10,811	312.1	Cosmos 43.....	8-22-64	(NA)	140	545	95.8
Anna 1B.....	10-31-62	355	670	734	107.9	Cosmos 44.....	8-28-64	(NA)	373	541	99.5
Injun 3.....	12-13-62	(NA)	150	1,457	111.4	Cosmos 49.....	10-24-64	(NA)	156	250	91.2
Relay 1.....	12-13-62	172	819	4,623	185.1	Cosmos 51.....	12-9-64	(NA)	158	305	92.1
Explorer 16.....	12-16-62	222	468	731	104.4	Cosmos 53.....	1-30-65	(NA)	138	700	98.3
Transit 5A.....	12-19-62	135	432	457	99.1	Cosmos 54.....	2-21-65	(NA)	162	1,064	104.9
Syncom 1.....	2-14-63	86 (NA)	(NA)	(NA)	(NA)	Cosmos 55.....	2-21-65	(NA)	163	1,078	105.1
Explorer 17.....	4-3-63	405	153	445	94.2	Cosmos 56.....	2-21-65	(NA)	162	1,036	104.4
Telstar 2.....	5-7-63	175	592	6,723	225.3	Cosmos 58.....	2-26-65	(NA)	340	403	96.8
Tiros 7.....	6-19-63	297	385	405	97.4	Cosmos 60.....	3-12-65	(NA)	121	164	89.0
Research Satel- lite for Geo- physics.....	6-28-63	(NA)	257	806	102.0	Cosmos 61.....	3-14-65	(NA)	163	1,077	105.1
Syncom 2.....	7-26-63	86	22,247	22,269	1,437.9	Cosmos 62.....	3-14-65	(NA)	161	1,063	104.8
Explorer 18.....	11-27-63	138	2,208	119,649	5,603.8	Cosmos 63.....	3-14-65	(NA)	164	1,035	104.4
						Cosmos 64.....	3-25-65	(NA)	127	155	89.1

NA Not available. ¹2 satellites launched at once. ²3 satellites launched at once. Payloads Injun and SR-3 failed to separate. ³Launched by NASA and British National Committee for Space Research.⁴Launched by NASA and Canadian Defense Research Board.Source: National Aeronautics and Space Administration; *Satellite Situation Report*, Mar. 31, 1965, and *Space Activities Summary*, various dates.

Section 21

Transportation—Land

This section presents statistics relating to the mileage, control, and financing of public roads and to the transportation of persons and goods by land. The modes of transport included are passenger car, truck, railroad, bus and streetcar, and pipeline.

The principal compiler of data on public roads and motor-vehicle registrations is the Bureau of Public Roads of the Department of Commerce which, since 1945, has issued the annual *Highway Statistics*. Its *Highway Statistics, Summary to 1955*, presents public roads data carried back for 20 to 50 years. The principal sources of land transport data, other than for public roads and motor-vehicle registrations, are the Interstate Commerce Commission's *Annual Report* and its annual *Transport Statistics in the United States*, Part 1, which contains data on railroads. Other important publications of the Interstate Commerce Commission in the field of land transport include the annual *Statistics of Class I Motor Carriers* (issued as Part 7 of *Transport Statistics*); the annual *Statistics of Oil Pipe-Line Companies* (issued as Part 6 of *Transport Statistics*); the annual *Accident Bulletin*, and, for historical data on railroads, *Statistics of Railways in the United States*, published annually from 1887 through 1953. A new source of data is the 1963 *Census of Transportation*. It was conducted by the Bureau of the Census and consisted of 4 parts: *Commodity Transportation Survey*, *Passenger Transportation Survey*, *Truck Inventory and Use Survey*, and *Bus and Truck Carrier Survey*.

Additional governmental sources are the Agriculture Department's Bulletin 1279, *Rural Highway Mileage, Income, and Expenditures, 1921-22*, which contains data for the 1904, 1909, 1914, and 1921 road mileage surveys; and the *Census of Manufactures* and the *Annual Survey of Manufactures* of the Bureau of the Census, which contain statistics on the motor-vehicle and equipment industry. Data from these Bureau of the Census reports are included in section 29, *Manufactures*, of this volume. Non-governmental data can be found in *Cars of Revenue Freight Loaded*, published weekly and annually by the Association of American Railroads, Washington, D.C.; *Bus Facts*, issued annually by the National Association of Motor Bus Owners, also of Washington; the *Transit Fact Book*, containing street railway and motorbus statistics, published annually by the American Transit Association, New York; and *Transportation Facts and Trends*, issued by the Transportation Association of America, Washington. Useful annual handbooks in the field of motor-vehicle transport are *Automobile Facts and Figures* and *Motor Truck Facts*, both issued by the Automobile Manufacturers Association; *American Trucking Trends*, issued by the American Trucking Association, Washington; and *Accident Facts*, issued by the National Safety Council, Chicago.

Rural and urban roads.—The terms "rural," "urban," and "municipal" are used in different ways in different tables in this section. Because of special problems and purposes, it is not possible to apply identical definitions and groupings to all types of data. Definitions are given in table headnotes where pertinent.

Highway systems.—The Federal-Aid Highway Act of 1916 provides for the sharing of highway construction costs between the States and the Federal Government with the initiative retained by each State for choosing projects and carrying them out. The planning and development of Federal-aid systems began in 1921. Federal funds share with State funds in costs of engineering, construction, and right-of-way acquisition on the designated systems while other charges, such as maintenance and policing, are borne entirely by the States and local agencies.

The Federal-aid primary system connects all of the principal cities, county seats, ports, manufacturing areas, and other traffic generating areas. In general, these are

the same as the main State trunkline roads. The Federal-aid secondary system consists of important feeder roads linking the farms, factories, distribution outlets, and smaller communities with the primary system.

In 1956, Congress extended the National System of Interstate and Defense Highways from 40,000 to 41,000 miles and provided a long-range program to complete the system. Federal funds of \$37 billion, providing 90 percent of the total estimated cost, are authorized for the fiscal years 1957 to 1971.

Motor carriers.—Prior to 1950, class I for-hire motor carriers were classified by the Interstate Commerce Commission as those with \$100,000 or more of gross annual operating revenue. Beginning 1950, the class I minimum became \$200,000. Beginning 1957, the class I minimum for motor carriers of property was increased to \$1,000,000; however, the minimum for class I motor carriers of passengers remained at \$200,000.

Railroads.—The total railroad mileage of the United States comprises companies reporting to the Interstate Commerce Commission, grouped as follows: (1) Regular interstate carriers (and their nonoperating subsidiaries); (2) switching and terminal railroads; and (3) private railroads (identified by the Commission as "circular" because they report on brief circulars, or as "unofficial" when their reports are received too late for tabulation). For the most part, circular and unofficial companies, and switching and terminal railroads, are not included in the statistics.

Nonoperating subsidiaries comprise proprietary companies, which are covered by the reports of operating carriers, and lessor companies, which have no traffic and whose reports appear only in statistics of capitalization, dividends, and investment.

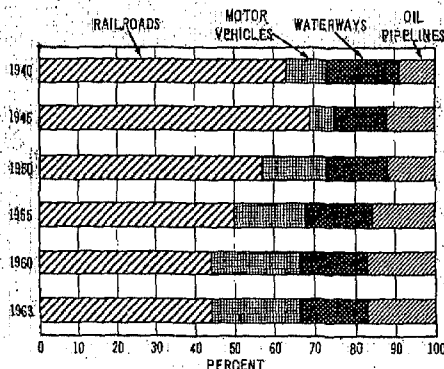
Operating railroads are classified on the basis of operating revenues. Prior to 1956, the classification was as follows: Class I, those having more than \$1,000,000 gross annual operating revenue; class II, from \$100,000 to \$1,000,000; and class III, less than \$100,000. From 1956 to 1964, the following classification was in effect: Class I, \$3,000,000 or more; and class II, under \$3,000,000. Effective January 1965, the classification was changed to the following: Class I, \$5,000,000 or more; and class II, under \$5,000,000.

Alaska and Hawaii.—Statements specifying inclusion or exclusion of figures for Alaska and Hawaii appear in the headnotes to each table unless the inclusion or exclusion is self-evident.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1957*. See preface.

FIG. XXXVI. PERCENT DISTRIBUTION OF TON-MILES OF DOMESTIC INTERCITY FREIGHT TRAFFIC, BY TYPE OF TRANSPORTATION: 1940 TO 1963

[Airways not shown separately—less than 1 percent. See table 779]



Source: Chart prepared by Dept. of Commerce, Bureau of the Census. Data from Interstate Commerce Commission.

Intercity Freight and Passenger Traffic

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No. 779. VOLUME OF DOMESTIC INTERCITY FREIGHT TRAFFIC, BY TYPE OF TRANSPORTATION: 1940 TO 1963

[In millions of ton-miles, except percent. Airways, beginning 1959, and other types of transportation, beginning 1960, include Alaska and Hawaii, except as noted. A ton-mile is the movement of 1 ton (2,000 pounds) of freight for the distance of 1 mile. Comprises public and private traffic, both revenue and nonrevenue. See also *Historical Statistics, Colonial Times to 1957*, series Q 1-11]

YEAR	Total traffic, volume	RAILROADS ¹		MOTOR VEHICLES		INLAND WATERWAYS ²		OIL PIPELINES		AIRWAYS ³	
		Volume	Per cent of total	Volume	Per cent of total	Volume	Per cent of total	Volume	Per cent of total	Volume	Per cent of total
1940.....	651,204	411,813	63.24	62,043	9.53	118,057	18.13	59,277	9.10	14	0.002
1945.....	1,072,490	736,184	68.64	66,948	6.24	142,737	13.31	126,530	11.80	91	0.008
1950.....	1,094,160	628,463	57.44	172,860	15.80	163,344	14.93	129,175	11.81	318	0.029
1951.....	1,209,099	686,377	56.77	188,012	15.55	182,216	15.07	152,115	12.58	379	0.031
1952.....	1,172,167	651,276	55.56	194,607	16.60	168,367	14.36	157,502	13.44	415	0.035
1953.....	1,232,477	642,578	52.14	217,163	17.62	202,439	16.43	169,884	13.78	413	0.034
1954.....	1,144,033	577,529	50.48	213,225	18.64	173,679	15.18	179,203	15.66	397	0.035
1955.....	1,298,060	654,573	50.43	223,254	17.20	216,508	16.68	203,244	15.66	481	0.037
1956.....	1,376,320	676,974	49.19	248,846	18.08	219,978	15.98	229,959	16.71	563	0.041
1957.....	1,354,012	644,746	47.62	254,174	18.77	231,792	17.12	222,728	16.45	572	0.042
1958.....	1,231,184	574,756	46.68	255,544	20.76	189,016	15.35	211,289	17.16	579	0.047
1959.....	1,812,155	599,347	45.68	288,519	21.99	196,559	14.98	226,961	17.30	739	0.056
1960.....	1,342,174	594,855	44.32	297,662	22.18	220,253	16.41	228,626	17.03	778	0.057
1961.....	1,342,633	585,558	43.61	313,302	23.33	209,706	15.62	233,172	17.37	895	0.066
1962.....	1,409,150	615,720	43.69	331,319	23.61	223,089	15.83	237,723	16.87	1,289	0.091
1963.....	1,477,316	643,604	43.57	347,865	23.55	234,172	15.85	250,319	16.94	1,296	0.088

¹ Includes electric railways, express, and mail.

² Includes Great Lakes. Includes Alaska for all years and Hawaii beginning 1950.

³ Domestic revenue service only. Includes express, mail, and excess baggage.

⁴ Part of this increase resulted from coverage of waterways previously existing but not covered.

⁵ Includes Alaska and Hawaii.

Source: Interstate Commerce Commission; *Annual Report*, and Statement No. 6103, *Intercity Ton-Miles, 1939-1969*, April 1961.

No. 780. VOLUME OF DOMESTIC INTERCITY PASSENGER TRAFFIC, BY TYPE OF TRANSPORTATION: 1950 TO 1963

[In millions of passenger-miles, except percent. Airways, beginning 1959, and other types of transportation, beginning 1960, include Alaska and Hawaii. A passenger-mile is the movement of 1 passenger for the distance of 1 mile. Comprises public and private traffic, both revenue and nonrevenue]

YEAR	Total traffic, volume	PRIVATE AUTOMOBILES		AIRWAYS ¹		COMMERCIAL MOTOR CARRIERS		RAILROADS ²		INLAND WATERWAYS ³	
		Volume	Per cent of total	Volume	Per cent of total	Volume	Per cent of total	Volume	Per cent of total	Volume	Per cent of total
1950.....	473,022	402,843	85.16	10,072	2.13	26,436	5.59	32,481	6.87	1,190	0.25
1952.....	575,345	495,547	86.13	14,988	2.61	28,704	4.99	34,710	6.03	1,396	0.24
1953.....	608,769	529,194	86.93	17,430	2.86	28,397	4.66	32,261	5.30	1,487	0.24
1954.....	625,113	548,763	87.79	19,568	3.13	25,614	4.10	29,497	4.71	1,701	0.27
1955.....	664,510	585,817	88.16	22,741	3.42	25,519	3.84	28,695	4.32	1,738	0.26
1956.....	696,696	615,514	88.35	25,523	3.66	25,189	3.62	28,610	4.11	1,860	0.27
1957.....	694,018	616,254	88.80	28,128	4.05	21,455	3.09	26,251	3.78	1,530	0.30
1958.....	704,462	629,496	89.36	28,522	4.05	20,756	2.95	23,605	3.35	2,073	0.29
1959.....	736,764	659,435	89.65	32,566	4.42	20,364	2.76	22,373	3.04	2,026	0.27
1960.....	760,733	682,177	89.73	33,958	4.46	19,896	2.62	21,574	2.84	2,088	0.35
1961.....	775,005	697,831	90.04	34,599	4.46	19,703	2.54	20,527	2.65	2,345	0.30
1962.....	801,450	719,680	89.80	37,574	4.69	21,279	2.66	20,181	2.52	2,736	0.34
1963.....	834,544	748,467	89.69	42,765	5.12	21,917	2.63	15,632	2.23	2,763	0.33

¹ Includes domestic commercial revenue service and private pleasure and business flying.

² Includes electric railways.

³ Includes Great Lakes.

Source: Interstate Commerce Commission; *Annual Report*, and *Transport Economics*, August 1962.

No. 781. OPERATING REVENUES, BY TRANSPORT AGENCY: 1940 TO 1964

[Excludes Alaska and Hawaii, except as noted]

TRANSPORT AGENCY	1940	1945	1950	1955	1960	1963	1964
REVENUES (mil. dol.)							
Pullman Company.....	60	148	104	95	56	43	30
Electric railways ¹	53	87	79	60	23	14	13
Railway Express ²	120	284	223	241	248	275	299
Railroads ³	4,469	9,136	9,820	10,495	9,899	9,921	10,220
Waterlines ⁴	113	173	330	452	427	395	394
Pipelines (oil).....	226	304	442	678	770	840	871
Domestic scheduled air carriers ⁵	77	215	558	1,215	2,129	2,723	(NA)
Motor carriers of property.....	898	1,840	3,737	5,535	7,214	8,543	9,282
Motor carriers of passengers ⁶	176	652	639	552	667	759	899
INDEX (1939=100)							
Railroads ³	107.7	220.6	237.2	253.5	239.1	239.6	247.1
Pipelines (oil).....	106.3	143.2	207.8	318.9	362.5	395.4	409.6
Domestic scheduled air carriers ⁵	137.6	384.1	997.9	2,151.8	3,801.8	4,867.0	(NA)
Motor carriers of property.....	109.4	177.5	471.7	698.7	910.6	1,079.1	1,171.7
Motor carriers of passengers.....	103.6	327.3	318.6	331.2	394.4	448.8	478.2

NA Not available.

¹ Since Jan. 1, 1962, 1 electric railway has been abandoned, 1 reclassified as a motor carrier, 1 as a class II railway lessor, and 1 has been taken over by a port authority corporation.² After deducting payments to others for express privileges.³ Includes line-haul and switching and terminal companies. Includes Alaskan and Hawaiian companies beginning 1960.⁴ Includes only revenues from domestic traffic of carriers subject to the jurisdiction of the Interstate Commerce Commission.⁵ Source: Federal Aviation Agency; *FAA Statistical Handbook of Aviation*. Includes Hawaii and, beginning 1955, Alaska.⁶ Excludes motor-carrier revenues of electric railways, included under electric railways.Source: Interstate Commerce Commission; *Annual Report, Statistics of Class I, II, and III Motor Carriers' 1939-1966* (Statement No. 539), and *Transport Economics*, except as noted.

No. 782. EXISTING RURAL AND MUNICIPAL HIGHWAY MILEAGE, BY GOVERNMENTAL CONTROL: 1930 TO 1963

[In thousands. As of December 31. Beginning 1959, includes Alaska and Hawaii. Municipal roads are those within incorporated places, densely populated New England towns, and certain of the more populous unincorporated areas. All other roads are classed as rural. See *Historical Statistics, Colonial Times to 1957*, series Q 246, and, for similar but not exactly comparable data, series Q 247 and Q 251]

MILEAGE AND CONTROL	1930	1940	1950	1955	1959	1960	1961	1962	1963
Total mileage.....	(NA)	(NA)	3,313	3,418	3,511	3,546	3,573	3,600	3,620
Rural mileage.....	3,009	2,990	2,990	3,045	3,094	3,116	3,127	3,145	3,145
Under State control.....	324	524	551	619	654	669	665	674	678
Under local control.....	2,685	2,466	2,336	2,333	2,333	2,345	2,346	2,351	2,346
Under Federal control.....									
			73	93	107	112	116	120	121
Municipal mileage.....	(NA)	(NA)	323	373	416	430	446	455	475
Under State control.....	(NA)	27	36	42	48	50	54	56	59
Under local control.....	(NA)	(NA)	287	331	368	380	392	399	416

NA Not available.

Source: Dept. of Commerce, Bureau of Public Roads; annual report, *Highway Statistics*.

NO. 788. EXISTING MUNICIPAL AND RURAL HIGHWAY MILEAGE—STATES: 1963

[As of December 31. For definition of municipal and rural roads, see headnote, table 782. Compiled for latest available year from reports of State authorities and planning survey data]

STATE	Total rural and municipal	Municipal	RURAL					
			Total	Type		Governmental control		
				Surfaced	Nonsurfaced	State ¹	Local	Federal ²
United States.....	3,620,457	474,952	3,145,505	2,252,647	892,858	³ 677,575	2,346,508	121,422
Alabama.....	76,565	10,414	66,151	56,331	9,820	³ 17,872	48,279	-
Alaska.....	6,230	328	5,902	2,503	3,399	4,181	1,621	100
Arizona.....	38,920	5,510	33,410	13,189	20,221	4,963	16,343	12,104
Arkansas.....	80,368	6,891	73,477	44,976	28,501	11,335	60,128	2,014
California.....	164,519	36,538	117,981	75,364	42,617	14,838	78,585	24,558
Colorado.....	79,117	5,761	73,356	39,168	34,188	8,009	65,029	318
Connecticut.....	17,274	12,138	5,136	5,040	96	1,496	3,640	-
Delaware.....	4,743	1,307	3,436	3,210	226	³ 3,436	-	-
Dist. of Columbia.....	1,239	1,239	(X)	(X)	(X)	(X)	(X)	(X)
Florida.....	74,183	17,663	56,520	34,533	21,987	14,824	41,706	-
Georgia.....	96,260	13,550	82,710	47,928	34,782	14,769	67,913	28
Hawaii.....	3,184	797	2,387	2,200	187	1,048	1,272	67
Idaho.....	42,183	2,589	39,594	24,539	15,055	4,668	27,039	7,897
Illinois.....	127,068	24,719	102,339	94,531	7,808	12,906	89,433	-
Indiana.....	105,977	17,397	88,580	81,417	7,163	10,066	78,524	-
Iowa.....	112,029	12,444	99,585	90,553	9,032	8,971	90,614	-
Kansas.....	132,823	8,963	123,870	70,035	44,535	9,928	113,934	8
Kentucky.....	69,548	4,734	64,814	49,232	15,582	20,316	44,234	264
Louisiana.....	49,186	8,916	40,270	34,134	6,136	³ 14,048	26,222	-
Maine.....	20,952	2,104	18,848	16,519	2,329	³ 10,889	7,818	141
Maryland.....	22,799	3,731	19,068	19,024	44	4,657	14,411	-
Massachusetts.....	26,803	10,017	16,786	15,337	1,449	2,134	14,652	-
Michigan.....	112,451	17,666	94,785	75,661	19,124	8,041	86,754	-
Minnesota.....	124,725	14,839	109,886	95,816	14,070	11,303	97,167	1,416
Mississippi.....	64,943	5,741	59,202	55,398	3,804	9,827	49,183	192
Missouri.....	113,832	14,041	99,791	90,162	9,629	29,742	69,451	598
Montana.....	74,066	1,847	72,219	31,429	40,790	11,298	53,369	7,552
Nebraska.....	102,061	5,847	96,214	59,962	36,252	9,205	87,323	286
Nevada.....	45,599	1,223	44,376	12,747	31,629	³ 6,241	38,122	13
New Hampshire.....	14,277	1,526	12,751	9,999	2,752	3,868	8,792	91
New Jersey.....	32,374	11,329	21,045	18,768	2,277	1,718	19,327	-
New Mexico.....	64,968	3,338	61,630	14,452	47,178	11,386	45,151	5,093
New York.....	101,270	17,387	83,883	74,740	9,143	13,746	70,127	10
North Carolina.....	82,667	11,992	70,675	61,240	9,435	³ 69,286	-	1,389
North Dakota.....	104,560	2,972	101,588	59,279	42,309	6,117	94,921	550
Ohio.....	105,749	21,623	84,126	82,409	1,717	15,926	68,200	-
Oklahoma.....	104,903	11,122	93,781	59,654	34,127	11,172	82,609	-
Oregon.....	78,678	5,764	72,914	43,223	29,691	8,464	34,134	30,316
Pennsylvania.....	110,228	21,547	88,681	68,560	20,121	42,486	45,887	308
Rhode Island.....	4,492	3,150	1,342	1,241	101	739	603	-
South Carolina.....	57,450	5,496	51,954	29,685	22,269	27,330	24,624	-
South Dakota.....	89,277	2,773	86,504	50,537	35,967	7,803	77,078	1,623
Tennessee.....	76,571	8,497	67,074	65,208	1,866	8,153	58,075	846
Texas.....	236,464	40,707	195,757	125,472	70,285	56,152	139,605	-
Utah.....	36,260	4,042	32,218	16,620	15,598	5,026	19,361	7,831
Vermont.....	13,779	908	12,871	10,878	1,993	2,108	10,739	24
Virginia.....	57,436	7,150	50,286	49,255	1,031	³ 48,496	709	1,081
Washington.....	66,898	8,099	58,799	47,760	11,039	9,681	39,181	9,937
West Virginia.....	34,961	3,038	31,923	20,932	10,991	³ 31,020	-	908
Wisconsin.....	99,420	12,447	86,973	80,258	6,715	10,539	76,367	67
Wyoming.....	68,538	1,121	67,417	12,539	54,878	5,368	58,252	3,797

- Entry represents zero. X Not applicable.

¹ Includes 21,488 miles of State park, forest, institutional, and other roads, rural and municipal, that are not part of State or local highway systems. Also includes 3,676 miles of toll roads, bridges, tunnels, etc.

² Comprises mileage of roads not forming a part of State or local highway systems.

³ Includes mileage of county roads under State control in Alabama (8 counties), Delaware, Nevada, North Carolina, Virginia (all but 2 counties), and West Virginia; farm-to-market system in Louisiana; and the State-aid system in Maine.

Source: Dept. of Commerce, Bureau of Public Roads; annual report, *Highway Statistics, 1963*, and unpublished data.

No. 784. EXISTING HIGHWAY MILEAGE OF RURAL ROADS: 1930 TO 1963

[In thousands. As of December 31. Beginning 1959, includes Alaska and Hawaii. For definition of rural roads, see headnote, table 782. See *Historical Statistics, Colonial Times to 1957*, series Q 247-250, for similar but not exactly comparable data]

TYPE AND CONTROL	1930	1940	1950	1955	1959	1960	1961	1962	1963
All rural roads.....	3,009	2,990	2,990	3,045	3,094	3,116	3,127	3,145	3,145
Primary State highways.....	324	329	303	387	403	403	406	407	409
Secondary State highways.....	-	81	88	91	101	105	106	110	111
County roads under State control.....	-	114	122	131	136	136	137	137	136
County and local roads ¹	2,685	2,466	2,417	2,436	2,455	2,472	2,478	2,491	2,489
Surfaced rural roads.....	694	1,340	1,679	1,942	2,125	2,165	2,179	2,229	2,253
Primary State highways.....	227	302	351	381	398	399	401	402	405
Secondary State highways.....	-	65	73	84	96	100	101	105	107
County roads under State control.....	-	55	83	103	110	111	113	115	115
County and local roads ¹	467	918	1,172	1,374	1,621	1,555	1,564	1,607	1,620
Nonsurfaced rural roads ²	2,315	1,650	1,311	1,103	969	951	948	916	892
Primary State highways.....	97	27	12	6	4	4	5	5	4
Secondary State highways.....	-	16	15	7	5	5	5	5	4
County roads under State control.....	-	59	39	28	26	25	24	22	21
County and local roads ¹	2,218	1,648	1,245	1,062	934	917	914	884	863

- Entry represents zero. ¹ Includes mileage in national and State parks, forests, reservations, etc., not included as part of State or local systems.

² Includes mileage not classified by type of surface.

Source: Dept. of Commerce, Bureau of Public Roads; annual report, *Highway Statistics*.

No. 785. HIGHWAY CONSTRUCTION—CONTRACTS AWARDED, BY OWNERSHIP: 1947 TO 1964

[In millions of dollars. Beginning 1959, includes Alaska and Hawaii. Includes force-account work started on Federal and State projects]

OWNERSHIP	1947	1950	1955	1959	1960	1961	1962	1963	1964
All construction.....	1,108	1,816	2,992	3,805	4,756	4,482	4,891	4,989	5,586
Federally owned.....	25	36	59	86	129	92	95	142	116
State owned.....	892	1,492	2,560	3,213	3,901	3,803	4,241	4,275	4,745
Federally aided projects:									
Total value.....	635	798	1,256	2,638	3,097	3,108	3,253	3,730	4,055
Federal funds.....	329	415	667	1,877	2,218	2,289	2,506	2,770	3,084
Independent State projects:									
Total value.....	267	694	1,304	575	804	634	988	546	690
Toll facilities.....	(NA)	228	695	59	165	92	326	27	82
Locally owned ¹	191	289	374	506	725	588	555	572	725

NA. Not available.

¹ By municipalities, counties, and local level special districts.

Source: Dept. of Commerce, Bureau of the Census. In Dept. of Commerce, Business and Defense Services Administration; *Construction Review*.

No. 786. MILEAGE AND COST OF DESIGNATED FEDERAL-AID HIGHWAY SYSTEMS: 1917 TO 1964

[Includes Hawaii and Puerto Rico, and, beginning 1957, Alaska. See also *Historical Statistics, Colonial Times to 1957*, series Q 281-284]

YEAR	MILES OF HIGHWAY		COST ³ (mil. dol.)			YEAR	MILES OF HIGHWAY		COST ³ (mil. dol.)		
	Total existing ¹	Completed during year ²	Total	Federal funds	State funds		Total existing ¹	Completed during year ²	Total	Federal funds	State funds
1917-1921.....	(NA)	12,919	222	95	127	1957.....	809,672	22,424	1,714	969	746
1925.....	178,797	11,001	221	100	121	1958.....	830,569	28,137	2,744	1,060	1,075
1930.....	193,049	10,339	237	100	137	1959.....	854,294	32,633	3,709	2,518	1,191
1935.....	214,000	12,811	242	218	24	1960.....	866,841	20,969	3,264	2,273	992
1940.....	234,112	11,549	269	150	119	1961.....	879,539	21,313	3,265	2,339	925
1945.....	232,772	3,035	101	76	25	1962.....	886,678	21,051	3,423	2,437	986
1950.....	640,753	19,876	753	390	364	1963.....	891,027	19,561	3,790	2,767	1,023
1955.....	741,824	22,571	1,287	666	621	1964.....	(NA)	19,487	4,560	3,385	1,175

NA. Not available. ¹ Through 1945, total existing mileage of Federal-aid primary system; beginning 1950, includes secondary system. Through 1955, data as of June 30; thereafter, as of Dec. 31.

² Comprises construction and reconstruction mileage.

³ Represents actual expenditures of funds on calendar-year basis. Beginning 1935, includes money spent on public works and defense highways. Beginning 1940, includes secondary highways.

Source: Dept. of Commerce, Bureau of Public Roads; annual reports, *Highway Statistics*, and *Highway Progress*, 1964.

No. 787. FEDERAL-AID PAYMENTS TO STATE AND LOCAL GOVERNMENTS FOR HIGHWAY CONSTRUCTION: 1950 TO 1964

[In millions of dollars. For years ending June 30]

STATE OR OTHER AREA	1950	1955	1960	1961	1962	1963	1964
Total	428.8	596.7	2,941.7	2,622.6	2,782.8	3,022.5	3,644.2
United States	427.2	593.8	2,942.8	2,616.4	2,773.2	3,015.5	3,631.5
Alabama.....	6.2	17.1	50.9	59.8	64.8	40.6	49.4
Alaska.....	-	(Z)	16.1	12.8	16.2	25.0	48.0
Arizona.....	5.1	7.8	30.6	33.9	30.0	46.3	41.9
Arkansas.....	6.0	11.0	31.9	31.4	33.8	38.0	46.2
California.....	17.3	38.9	171.8	214.6	275.2	256.3	300.3
Colorado.....	8.4	9.1	36.0	32.1	32.9	41.3	44.0
Connecticut.....	4.5	2.6	28.7	36.3	34.2	28.7	53.4
Delaware.....	2.2	3.8	8.2	5.9	4.7	13.9	9.9
Dist. of Columbia.....	2.3	3.6	16.1	17.0	19.2	31.2	33.8
Florida.....	3.5	10.6	74.5	73.9	42.7	53.7	93.0
Georgia.....	11.9	14.4	60.6	56.8	61.1	63.8	86.9
Hawaii.....	3.9	3.1	4.3	4.2	3.9	6.0	8.7
Idaho.....	3.3	9.8	25.7	22.6	27.0	28.3	25.3
Illinois.....	16.4	27.0	200.1	188.9	141.8	161.0	195.5
Indiana.....	7.9	10.2	74.4	83.0	67.5	73.2	84.3
Iowa.....	14.0	14.5	67.7	39.5	38.5	34.1	53.6
Kansas.....	13.4	16.1	51.3	40.0	36.8	27.4	44.4
Kentucky.....	8.5	9.2	66.0	42.7	58.8	66.2	76.6
Louisiana.....	6.8	7.8	69.8	52.5	63.3	75.2	96.8
Maine.....	3.9	4.0	19.9	16.1	13.6	20.2	24.0
Maryland.....	5.8	4.2	27.3	33.2	44.4	37.7	40.2
Massachusetts.....	7.8	10.9	66.8	43.9	61.3	53.1	71.1
Michigan.....	16.6	20.1	96.4	102.0	98.9	121.7	161.3
Minnesota.....	11.2	14.6	64.9	66.1	58.7	64.2	84.7
Mississippi.....	6.5	9.9	36.2	39.9	35.6	39.4	45.1
Missouri.....	11.1	16.7	76.2	62.2	79.4	79.3	86.6
Montana.....	7.3	9.5	30.7	30.9	33.9	42.4	52.0
Nebraska.....	6.0	9.6	27.2	40.5	29.2	38.4	39.2
Nevada.....	4.4	4.8	10.1	12.0	16.3	17.5	32.3
New Hampshire.....	1.3	2.9	19.7	16.7	17.4	14.1	18.2
New Jersey.....	10.2	6.6	53.1	48.6	69.9	67.1	65.5
New Mexico.....	5.3	9.2	25.6	28.6	22.0	35.3	36.8
New York.....	31.6	46.3	217.2	158.7	141.7	162.7	175.9
North Carolina.....	8.6	13.3	59.4	40.0	42.9	38.3	47.2
North Dakota.....	6.5	5.9	32.7	24.0	16.5	17.1	30.2
Ohio.....	13.6	24.6	158.9	134.9	175.4	171.9	222.6
Oklahoma.....	10.8	11.2	33.2	35.4	35.3	34.8	48.4
Oregon.....	7.0	9.0	54.2	39.8	50.2	63.8	76.2
Pennsylvania.....	19.0	30.3	116.5	86.3	98.8	137.3	146.7
Rhode Island.....	1.5	2.2	12.5	11.6	8.5	15.1	17.9
South Carolina.....	5.1	7.5	46.8	39.1	34.1	27.0	32.3
South Dakota.....	6.5	6.0	26.1	30.0	36.6	22.7	32.0
Tennessee.....	8.5	12.5	66.9	69.6	67.9	98.3	98.7
Texas.....	29.6	34.7	197.7	141.9	128.7	164.7	180.0
Utah.....	3.9	5.6	33.5	26.3	27.4	34.5	42.7
Vermont.....	1.7	2.4	16.6	17.0	29.7	18.0	20.3
Virginia.....	7.1	11.0	53.4	56.6	76.1	92.3	114.5
Washington.....	6.6	9.2	44.1	35.6	56.4	61.6	71.3
West Virginia.....	4.7	6.0	46.8	31.8	22.0	18.0	26.8
Wisconsin.....	10.8	11.5	61.4	42.2	55.2	58.2	59.4
Wyoming.....	5.0	5.1	26.1	25.8	27.8	38.9	36.5
Puerto Rico.....	1.6	2.9	7.3	4.5	3.7	6.3	6.7
Undistributed to States, etc.....	-	-	2.4	1.6	6.9	.8	5.9

- Entry represents zero. Z Less than \$500,000.

1 Includes \$0.4 million for "Control of Outdoor Advertising." 2 Deduct.

Source: Treasury Dept.; Annual Report of the Secretary.

No. 788. FEDERAL-AID HIGHWAY SYSTEMS, 1963, AND PROJECTS, 1964—STATES AND PUERTO RICO

[Money figures in millions of dollars. Systems as of December 31, and projects as of June 30. Projects comprise those financed from the Federal-aid primary, secondary, urban, and interstate funds. See text, pp. 557 and 558]

STATE OR OTHER AREA	SYSTEMS (miles), 1963				PROJECTS, 1964					
	Primary			Secondary	Completed during fiscal year			Under construction		
	Total	National system of interstate highways			Miles	Total cost	Federal funds	Miles	Total cost	Federal funds
		Designated	Open to traffic							
Total	265,489	40,847	16,554	626,438	20,472	4,165.8	3,057.5	27,819	11,863.5	9,182.1
United States	264,976	40,847	16,554	625,316	20,441	4,149.7	3,050.0	27,775	11,835.1	9,168.6
Alabama	6,553	874	285	24,312	759	60.3	41.3	715	208.0	160.3
Alaska	3,198	-	-	2,251	173	41.5	38.9	347	86.1	79.6
Arizona	2,916	1,161	578	4,166	58	18.9	16.8	375	125.2	114.1
Arkansas	4,046	520	117	13,691	464	47.8	29.9	896	181.2	139.1
California	9,553	2,173	783	12,656	355	216.4	162.4	631	1,390.0	1,046.7
Colorado	4,546	948	368	4,185	283	46.2	34.4	326	99.3	78.7
Connecticut	1,278	297	176	1,251	31	45.9	36.8	47	208.9	161.1
Delaware	553	40	17	1,465	30	23.9	17.5	33	54.9	43.1
Dist. of Columbia	187	29	4	125	5	11.7	7.9	21	136.4	108.4
Florida	5,506	1,136	290	14,037	342	92.5	69.6	490	173.5	132.0
Georgia	8,904	1,104	284	19,769	336	63.2	44.0	1,057	329.7	255.2
Hawaii	510	48	6	663	13	10.9	5.5	17	32.0	21.1
Idaho	3,330	612	268	5,511	294	21.4	16.7	352	85.5	70.5
Illinois	10,995	1,581	710	14,231	621	184.3	133.8	917	610.4	485.4
Indiana	6,020	1,119	427	18,274	381	111.5	82.5	299	236.0	182.6
Iowa	10,170	709	264	33,176	1,101	86.3	57.2	955	125.2	98.1
Kansas	7,822	801	455	24,098	1,072	69.1	46.4	991	95.5	70.0
Kentucky	4,548	704	287	15,199	241	100.0	76.4	265	176.7	134.5
Louisiana	3,321	683	119	8,856	218	75.6	57.0	527	437.4	357.1
Maine	2,033	312	145	2,197	103	31.0	22.7	124	41.1	31.7
Maryland	2,409	354	206	7,586	91	37.9	25.6	249	156.0	122.7
Massachusetts	2,362	448	233	2,268	48	47.7	30.6	142	272.5	217.4
Michigan	7,033	1,078	761	25,290	826	187.5	141.1	1,234	320.6	234.8
Minnesota	8,507	898	175	30,774	971	65.0	45.2	1,574	372.2	302.1
Mississippi	5,880	678	210	16,379	820	60.6	41.5	979	139.3	103.0
Missouri	8,879	1,105	528	23,166	575	105.7	76.7	489	312.4	236.1
Montana	6,377	1,179	274	5,578	588	61.4	46.9	804	142.7	116.5
Nebraska	5,612	490	168	17,737	844	72.7	53.1	842	84.3	60.4
Nevada	2,197	536	152	2,964	176	18.1	16.6	222	93.6	87.9
New Hampshire	1,249	214	108	1,681	35	18.6	13.6	73	42.2	31.8
New Jersey	2,153	376	139	2,193	41	79.5	64.1	108	357.3	268.4
New Mexico	4,033	1,007	385	5,690	212	54.7	47.5	343	63.4	53.6
New York	10,700	1,227	847	19,380	336	448.0	320.3	615	780.2	549.8
North Carolina	4,660	769	410	29,309	258	74.7	49.3	469	144.4	91.1
North Dakota	4,629	568	267	13,113	944	31.9	22.7	1,412	73.8	52.0
Ohio	8,042	1,523	736	18,831	273	295.6	223.0	558	540.8	429.5
Oklahoma	8,371	794	459	13,563	583	61.6	39.1	625	120.3	87.6
Oregon	4,080	732	544	8,058	213	64.3	49.8	276	180.4	137.6
Pennsylvania	8,490	1,575	784	13,432	245	199.8	144.1	431	497.4	369.0
Rhode Island	533	71	23	625	10	14.4	11.4	26	96.2	72.4
South Carolina	5,267	679	297	18,940	760	41.5	27.7	1,229	100.6	75.3
South Dakota	6,064	679	247	12,701	852	36.6	26.3	936	72.4	53.5
Tennessee	6,760	1,048	220	11,277	709	102.4	75.6	787	355.8	286.6
Texas	17,444	3,030	1,316	35,283	1,473	245.6	150.3	1,934	445.9	342.8
Utah	2,354	935	106	3,841	149	32.9	29.6	168	99.3	91.2
Vermont	1,641	324	74	1,880	61	21.6	16.5	97	55.1	45.3
Virginia	5,629	1,053	283	18,714	296	127.4	101.8	647	458.2	384.7
Washington	3,977	726	321	11,701	274	50.6	34.9	390	225.2	179.1
West Virginia	2,911	531	137	10,775	13	8.4	6.8	189	215.7	163.0
Wisconsin	6,356	452	262	19,048	607	85.4	58.0	461	127.5	89.7
Wyoming	3,910	918	369	2,496	268	38.9	32.5	412	80.6	69.4
Puerto Rico	513	-	-	1,122	31	16.2	7.4	44	28.4	13.5

- Entry represents zero.

Source: Dept. of Commerce, Bureau of Public Roads; annual report, *Highway Progress, 1964*.

No. 789. HIGHWAY AND STREET RECEIPTS: 1950 TO 1965

[In millions of dollars. Federal and State data are for calendar years; local data for varying fiscal years. Includes Alaska, Hawaii, and Puerto Rico. Data for municipal places and streets include all municipalities and other political subdivisions urban in character. See *Historical Statistics, Colonial Times to 1897*, series Q 280-309, for related but not exactly comparable data]

RECEIPTS	1950	1955	1960	1962	1963	1964 (prel.)	1965 est.
Total funds available	4,487	7,355	10,761	12,302	13,054	13,672	14,168
Federal Government ¹	72	97	202	228	268	269	256
Motor fuel and vehicle taxes ²	(X)	(X)	2,827	3,088	3,411	3,610	3,701
General fund appropriations.....	492	770	197	227	267	305	280
Investment income and other receipts ⁴	3	21	39	49	57	51	51
Intergovernmental payments.....	-431	-687	-2,551	-2,945	-3,523	-4,005	-4,061
Funds drawn from (+) or placed in (-) reserves.....	+3	-7	-810	-191	+26	+308	+275
State agencies	2,557	4,670	7,125	8,358	8,960	9,399	9,835
Motor fuel and vehicle taxes ²	2,270	3,583	4,731	5,155	5,363	5,766	5,990
Tolls.....	72	209	426	480	497	536	575
Parking fees.....	(Z)	(Z)	1	1	1	1	1
General fund appropriations.....	52	53	54	73	53	66	67
Investment income and other receipts ⁴	47	98	163	178	206	231	243
Bond issue proceeds ⁴	400	644	680	1,017	468	501	705
Intergovernmental payments.....	-182	-156	1,387	1,704	2,177	2,563	2,549
Funds drawn from (+) or placed in (-) reserves.....	-102	+239	-317	-250	+205	-265	-295
Local rural governments	980	1,324	1,635	1,795	1,843	1,939	1,984
Motor fuel and vehicle taxes ²	2	4	9	9	9	9	10
Tolls.....	12	15	19	16	16	17	18
Property taxes and assessments.....	327	438	513	527	537	563	583
General fund appropriations.....	51	99	170	207	214	227	233
Investment income and other receipts ⁴	30	48	52	58	55	63	62
Bond issue proceeds ⁴	90	206	85	184	180	190	200
Intergovernmental payments.....	468	614	797	842	905	972	1,013
Funds drawn from (+) or placed in (-) reserves.....	-30	-100	-10	-48	-73	-102	-140
Municipalities	878	1,264	1,799	1,921	1,983	2,065	2,093
Motor fuel and vehicle taxes ²	20	56	70	67	67	67	67
Tolls.....	32	46	54	58	58	59	60
Parking fees.....	21	23	74	63	65	67	68
Property taxes and assessments.....	153	240	340	397	407	430	455
General fund appropriations.....	412	404	438	466	476	499	518
Investment income and other receipts ⁴	30	53	90	98	83	88	91
Bond issue proceeds ⁴	162	335	454	334	420	370	400
Intergovernmental payments.....	145	229	367	399	441	470	489
Funds drawn from (+) or placed in (-) reserves.....	-106	-122	-88	+39	-34	+15	-55

X Not applicable. Z Less than \$500.

¹ Includes forest highway and other funds administered by the Bureau of Public Roads, as well as funds of other Federal agencies not derived from the Highway Trust Fund.

² Excludes amounts allocated for collection expenses and nonhighway purposes.

³ Receipts of Federal Highway Trust Fund. ⁴ Includes miscellaneous taxes and fees.

⁵ Par value of long-term obligation. Premiums and discounts on sale of bonds included in investment income and other receipts. Excludes short-term notes and refunding issues.

Source: Dept. of Commerce, Bureau of Public Roads; releases.

No. 790. PUBLIC HIGHWAY DEBT—LONG-TERM HIGHWAY OBLIGATIONS OF STATE AND LOCAL GOVERNMENTS: 1950 TO 1965

[In millions of dollars. State data are for calendar year; local data are for varying fiscal years. Beginning 1959, includes Alaska and Hawaii. Excludes duplicated and interunit obligations except as noted. Municipal obligations include data for all municipalities and other political subdivisions urban in character. See *Historical Statistics, Colonial Times to 1897*, series Q 279, for State obligations outstanding]

ITEM	1950	1955	1959	1960	1961	1962	1963	1964 (prel.)	1965 est.
Total debt issued ¹	652	1,174	1,158	1,206	1,272	1,535	1,058	1,061	1,305
State obligations.....	400	646	669	680	718	1,017	458	501	705
County and local rural obligations.....	90	205	153	190	153	184	180	190	200
Municipal obligations.....	162	323	336	336	401	334	420	370	400
Total debt redeemed ²	322	421	610	616	665	679	725	714	748
State obligations.....	143	191	308	300	330	340	382	366	397
County and local rural obligations.....	83	89	92	96	117	110	112	114	115
Municipal obligations.....	96	141	210	220	218	229	231	234	236
Total debt outstanding	4,436	9,658	12,576	13,166	13,718	14,537	14,870	15,217	15,772
State obligations.....	2,096	6,619	9,004	9,384	9,772	10,449	10,525	10,660	10,966
County and local rural obligations.....	872	1,027	1,186	1,280	1,262	1,285	1,353	1,429	1,514
Municipal obligations.....	1,468	2,012	2,386	2,502	2,664	2,803	2,992	3,128	3,292

¹ Excludes refunding issues.

² Excludes redemptions by refunding.

Source: Dept. of Commerce, Bureau of Public Roads; releases.

No. 791. DISBURSEMENTS OF STATE HIGHWAY FUNDS—STATES: 1930 TO 1963

[In millions of dollars. Comprises disbursements, whether from current revenues or proceeds of loans, for construction, maintenance, interest and principal payments on highway bonds, transfers to local units, and miscellaneous disbursements. Includes transactions by State toll authorities. Beginning 1940, covers calendar years; figures for 1930 for many States represent fiscal years]

STATE	1930	1940	1945	1950	1955	1960	1961	1962	1963
United States ¹	1,331	1,678	1,302	3,562	6,034	8,957	9,627	10,451	11,248
Alabama.....	20	28	26	49	87	174	177	149	162
Alaska.....	(NA)	(NA)	(NA)	(NA)	(NA)	19	25	34	40
Arizona.....	6	9	6	20	33	72	86	93	96
Arkansas.....	40	18	15	45	55	95	91	108	128
California.....	56	99	138	268	558	786	1,003	1,010	1,047
Colorado.....	11	15	12	38	56	91	95	96	108
Connecticut.....	16	23	15	38	79	161	160	184	207
Delaware.....	8	4	3	32	26	36	29	51	68
Dist. of Columbia.....	2	7	4	11	24	48	58	59	53
Florida.....	20	39	36	93	152	316	266	375	374
Georgia.....	17	39	24	74	109	167	175	238	239
Hawaii.....	(NA)	(NA)	(NA)	(NA)	(NA)	23	24	27	25
Idaho.....	8	8	6	19	27	44	51	56	54
Illinois.....	53	71	53	113	229	475	438	448	476
Indiana.....	27	40	35	69	200	241	246	235	253
Iowa.....	57	33	23	79	109	169	159	157	189
Kansas.....	17	21	16	50	110	109	118	110	124
Kentucky.....	20	26	20	67	102	138	189	249	280
Louisiana.....	30	30	22	71	115	204	182	215	257
Maine.....	18	14	10	24	65	62	63	67	72
Maryland.....	20	27	19	84	138	166	187	218	228
Massachusetts.....	24	38	21	98	203	237	223	270	263
Michigan.....	48	67	50	106	249	418	496	463	441
Minnesota.....	39	31	23	65	101	167	183	162	185
Mississippi.....	11	31	23	42	76	110	116	117	139
Missouri.....	44	28	21	53	105	165	177	192	234
Montana.....	8	12	7	22	30	54	58	65	81
Nebraska.....	16	20	16	36	59	95	89	99	106
Nevada.....	3	4	2	9	15	22	27	35	45
New Hampshire.....	10	8	7	14	30	50	48	48	51
New Jersey.....	49	58	46	188	303	221	305	338	388
New Mexico.....	10	13	8	25	39	64	62	66	82
New York.....	109	199	114	304	471	652	688	820	793
North Carolina.....	26	40	29	136	141	179	200	210	202
North Dakota.....	6	7	6	22	28	50	47	42	60
Ohio.....	68	93	76	147	383	523	535	600	600
Oklahoma.....	27	24	24	73	113	134	147	165	204
Oregon.....	19	18	14	50	79	113	125	139	161
Pennsylvania.....	104	128	73	279	350	423	450	557	555
Rhode Island.....	4	8	6	14	30	42	44	45	55
South Carolina.....	23	23	22	46	57	109	104	95	101
South Dakota.....	8	9	6	20	34	57	71	60	75
Tennessee.....	56	34	32	79	108	187	204	211	244
Texas.....	65	80	67	178	282	493	491	510	563
Utah.....	5	6	6	15	23	49	57	63	71
Vermont.....	9	8	4	10	17	43	50	50	47
Virginia.....	23	28	29	76	112	211	249	287	334
Washington.....	16	40	29	78	127	171	213	220	282
West Virginia.....	24	26	27	51	64	110	107	99	109
Wisconsin.....	27	41	28	68	109	171	188	192	212
Wyoming.....	4	6	3	14	22	44	49	54	57

NA. Not available.

¹ Beginning 1960, includes Alaska and Hawaii.

Source: Dept. of Commerce, Bureau of Public Roads; annual report, *Highway Statistics*.

NO. 792. STATE HIGHWAY FUNDS AVAILABLE, BY SOURCE, AND DISBURSEMENTS, BY PURPOSE—STATES: 1963

[In millions of dollars. Comprises receipts and disbursements of all State imposts on highway users, all other funds available to State highway departments, and State funds other than those of highway departments, which were reported as being applied to highway purposes. Includes transactions of interstate and intrastate toll authorities that are operated by State or quasi-State agencies. See also *Historical Statistics, Colonial Times to 1967*, series Q 266-278]

STATE	FUNDS AVAILABLE					DISBURSEMENTS				
	Total	Motor-vehicle fees, motor-fuel and motor-carrier taxes	Federal funds	Income from issue of bonds	All other sources ¹	Total ²	For State-administered highways ³			For county and local roads and streets ⁴
							Capital outlay, roads and bridges ⁴	Maintenance and traffic services ⁴	Other ⁵	
United States.....	14,141	6,117	3,500	611	3,913	11,248	6,048	1,133	1,492	1,788
Alabama.....	188	94	38	25	31	162	66	18	18	56
Alaska.....	62	8	39	-	15	49	39	7	3	1
Arizona.....	99	51	44	-	4	59	59	15	8	16
Arkansas.....	152	65	55	6	26	128	72	15	22	15
California.....	1,233	708	267	75	183	1,047	536	52	123	177
Colorado.....	143	62	43	25	13	108	60	11	13	19
Connecticut.....	285	80	37	24	144	207	129	24	38	10
Delaware.....	89	18	16	5	50	68	41	7	18	1
Dist. of Columbia.....	61	20	36	-	5	53	(X)	(X)	(X)	51
Florida.....	576	213	82	32	249	374	222	22	49	15
Georgia.....	362	120	86	-	156	239	127	13	23	48
Hawaii.....	34	14	7	1	12	25	10	3	5	6
Idaho.....	58	28	26	-	4	54	31	6	5	11
Illinois.....	636	276	163	-	197	476	223	45	44	146
Indiana.....	327	156	78	-	98	253	117	31	28	69
Iowa.....	213	114	43	-	56	189	82	16	10	76
Kansas.....	149	73	41	-	35	124	63	21	16	20
Kentucky.....	353	97	83	26	147	280	200	34	35	7
Louisiana.....	361	87	88	60	126	257	161	22	40	31
Maine.....	104	35	24	14	31	72	38	17	13	3
Maryland.....	294	106	41	23	124	228	103	13	54	52
Massachusetts.....	430	115	66	23	235	283	185	30	88	19
Michigan.....	575	243	180	-	172	441	205	27	76	127
Minnesota.....	277	117	81	-	79	185	102	18	12	46
Mississippi.....	161	67	46	17	31	139	62	10	14	50
Missouri.....	272	130	89	-	53	234	163	36	15	16
Montana.....	89	30	53	-	6	81	63	7	6	5
Nebraska.....	101	58	41	-	2	106	60	10	5	29
Nevada.....	49	18	27	-	4	45	34	5	2	3
New Hampshire.....	56	23	19	10	4	51	28	10	10	2
New Jersey.....	543	214	82	47	200	388	128	35	60	24
New Mexico.....	90	40	42	3	5	82	54	13	8	4
New York.....	989	395	170	45	379	793	433	94	143	79
North Carolina.....	258	161	45	-	52	202	100	50	35	8
North Dakota.....	66	26	29	-	11	60	37	5	3	13
Ohio.....	740	355	223	2	160	600	310	40	95	143
Oklahoma.....	281	110	46	31	94	204	101	16	17	43
Oregon.....	203	76	73	12	42	161	85	16	20	34
Pennsylvania.....	716	346	141	35	194	555	314	86	91	56
Rhode Island.....	73	29	18	11	15	55	40	6	7	1
South Carolina.....	138	71	29	-	38	101	58	18	12	8
South Dakota.....	78	30	30	-	18	75	46	7	6	15
Tennessee.....	252	130	101	15	6	244	135	14	16	61
Texas.....	644	351	180	-	83	553	339	67	27	36
Utah.....	79	30	41	-	8	71	51	7	6	4
Vermont.....	44	20	21	3	(Z)	47	27	7	7	6
Virginia.....	417	130	109	(Z)	178	384	229	45	43	13
Washington.....	319	137	70	37	75	282	115	24	66	43
West Virginia.....	113	65	25	4	19	109	68	21	11	18
Wisconsin.....	225	128	67	-	30	212	104	19	11	65
Wyoming.....	75	17	44	-	14	57	43	5	3	5

- Entry represents zero. X Not applicable. Z Less than \$500,000.

¹ Balances from 1962, totaling \$3,049 million, and miscellaneous current revenues, totaling \$864 million.

² Includes disbursements of \$258 million for collection and administration of highway-user revenues, and of \$529 million for nonhighway purposes. ³ Expenditures on county roads under State control in Ala. (8 counties), Del., N.C., Va. (all except 2 counties), and W. Va. included with those for State-administered highways.

⁴ Includes some administration, engineering, and miscellaneous disbursements. ⁵ Disbursements for administration, engineering, and miscellaneous; State highway police and safety; bond interest; and bond retirement.

Source: Dept. of Commerce, Bureau of Public Roads; annual report, *Highway Statistics, 1963*.

No. 793. FEDERAL AND STATE MOTOR-FUEL TAX—STATES: 1940 TO 1964

[Cents per gallon. Where 2 figures appear in a cell, the former is tax in effect at beginning of year, the latter is tax at end of year. See also *Historical Statistics, Colonial Times to 1867*, series Q, 325-329]

STATE	1940	1950	1955	1960	1964 ¹	STATE	1940	1950	1955	1960	1964 ¹
Federal tax.....	1-1.5	1.5	2	4	4	Mississippi.....	6	6-7	47	47	47
State average ²	3.96	4.65	5.35	5.94	6.31	Missouri.....	2	2	3	3	5
Alabama.....	6	6	6-7	7	7	Montana.....	5	6	46-7	46	46
Alaska.....	(1)	(1)	2-5	5-7	8	Nebraska.....	5	6-5	6	7	7
Arizona.....	5	5	5	5	5	Nevada.....	4	4.5	45.5-6	6	6
Arkansas.....	6.5	6.5	6.5	6.5	6.5	New Hampshire.....	4	4	5	7	7
California.....	3	4.5	4.6	4.6	7	New Jersey.....	3	3	4	5	6
Colorado.....	4	6	6	6	6	New Mexico.....	5	7	6	6	6
Connecticut.....	3	4	4-6	6	6	New York.....	4	4	4	4	4
Delaware.....	4	5	5	6	6	North Carolina.....	6	7	7	7	7
Dist. of Col.....	2	4	6	6	6	North Dakota.....	4	4	5-6	6	6
Florida.....	7	7	7	7	7	Ohio.....	4	4	5	7	7
Georgia.....	6	7	6-6.5	6.5	6.5	Oklahoma.....	4	6.5	6.5	6.5	6.5
Hawaii.....	4	4	4-5	5	5	Oregon.....	5	6	6	6	6
Idaho.....	5.1	6	6	6	6	Pennsylvania.....	4	5	5-6	6	7
Illinois.....	3	3	5	5	5	Rhode Island.....	3	4	4	6-7	7
Indiana.....	4	4	4	6	6	South Carolina.....	6	6-7	7	7	7
Iowa.....	3	4	4-5	4.6	4.8	South Dakota.....	4	4	5	4.6	4.6
Kansas.....	3	5	5	4.5	4.5	Tennessee.....	7	7	7	7	4.7
Kentucky.....	5	7	7	6.7	6.7	Texas.....	4	4	4-5	4.5	4.5
Louisiana.....	7	9	7	7	7	Utah.....	4	4	5	6	6
Maine.....	4	6	6-7	7	7	Vermont.....	4	5	45-5.5	4.5	4.5
Maryland.....	4	5	6	6	6-7	Virginia.....	5	6	6	6-7	4.7
Massachusetts.....	3	3	5	5.5	5.5	Washington.....	5	6.5	6.5	6.5	7.5
Michigan.....	3	3	4.5-6	6	6	West Virginia.....	5	5	5-6	7	7
Minnesota.....	4-3	5	5	5	6	Wisconsin.....	4	4	4-6	6	6
						Wyoming.....	4	4	4.5	4.5	4.5

¹ As of Aug. 1.

² Weighted average, based on net gallons taxed. Beginning 1960, includes Alaska and Hawaii.

³ No tax. ⁴ Diesel fuel tax differs from gasoline tax.

⁵ State tax rate is 8 cents in Hawaii County and 5 cents in the other counties.

⁶ Trucks or combinations with more than 2 axles pay motor-fuel tax rates of 9 cents per gallon in Kentucky and Virginia. (Prior to July 1, 1960, the tax in Virginia was 8 cents.)

Source: Dept. of Commerce, Bureau of Public Roads; annual report, *Highway Statistics*.

No. 794. MOTOR-VEHICLE TRAVEL, BY CLASS OF ROAD AND TYPE OF VEHICLE: 1940 TO 1963

[In millions of vehicle-miles, except averages. Beginning 1959, estimates for total United States travel based on automatic traffic recorder data from 50 States and District of Columbia. Urban travel includes all travel in municipalities and most travel in urbanized areas. All other travel is classed as rural. See also *Historical Statistics, Colonial Times to 1867*, series Q, 321-327]

ITEM	1940 ¹	1950	1955	1959	1960	1961	1962	1963
Total travel.....	362,188	458,246	603,434	700,478	718,845	737,535	766,852	801,055
CLASS OF ROAD								
Rural.....	152,195	239,998	336,153	376,688	387,260	397,902	398,763	416,470
Main rural roads.....	109,861	174,350	227,988	280,393	288,483	297,195	287,322	300,954
Local rural roads.....	42,334	65,648	108,165	96,295	98,777	100,707	111,441	115,516
Urban.....	149,993	218,248	267,281	323,790	331,585	339,633	368,089	384,585
TYPE OF VEHICLE								
Passenger vehicles.....	252,257	367,694	492,047	577,324	592,436	608,953	633,563	659,182
Rural.....	121,988	183,218	265,667	297,393	305,538	314,762	314,626	327,406
Urban.....	130,269	184,476	226,380	279,931	286,898	294,191	318,937	331,776
Passenger cars ¹	249,600	363,613	487,540	572,976	588,083	604,587	629,097	654,899
Rural.....	120,540	181,095	263,088	295,153	303,283	312,437	312,272	325,009
Urban.....	129,060	182,518	224,452	277,823	284,800	292,120	316,825	329,890
Buses.....	2,667	4,061	4,507	4,348	4,353	4,396	4,466	4,483
Rural.....	1,448	2,123	2,579	2,240	2,255	2,325	2,354	2,397
Urban.....	1,209	1,938	1,928	2,108	2,098	2,071	2,112	2,086
Trucks and combinations.....	49,931	90,552	111,387	123,154	126,409	128,582	133,289	141,873
Rural.....	30,207	56,780	70,486	79,295	81,722	83,140	84,137	89,064
Urban.....	19,724	33,772	40,901	43,859	44,687	45,442	49,152	52,809
AVERAGE MILES PER VEHICLE								
Passenger vehicles.....	9,129	9,078	9,400	9,559	9,474	9,492	9,467	9,402
Passenger cars ¹	9,080	9,020	9,369	9,529	9,446	9,465	9,441	9,378
Buses.....	18,580	20,910	17,658	16,408	16,004	15,661	15,507	15,049
Trucks and combinations.....	10,626	10,776	10,697	10,562	10,583	10,461	10,406	10,569

¹ Includes taxicabs and motorcycles.

Source: Dept. of Commerce, Bureau of Public Roads; releases.

No. 795. MOTOR VEHICLES—FACTORY SALES AND REGISTRATIONS: 1900 TO 1964

[Beginning 1960, registrations include Alaska and Hawaii, except as noted. See also *Historical Statistics, Colonial Times to 1887*, series Q 310-317]

YEAR	FACTORY SALES ¹							REGISTRATIONS ⁵ (1,000)			
	Number (1,000)			Wholesale value ³ (mil. dol.)				Total	Passenger cars and taxis ⁶	Trucks and buses ⁴	
	Total	Pas- senger cars	Trucks and buses ²	Total	Passenger cars		Trucks and buses ²				
					Total	Average ⁴	Total				Average ⁴
1900.....	4	4	—	5	5	1,250	—	—	8	8	—
1910.....	187	181	6	225	215	1,188	10	1,667	7,470	458	10
1920.....	2,227	1,906	322	2,232	1,809	940	423	1,814	79,251	8,131	1,108
1930.....	3,363	2,787	575	2,035	1,644	590	391	680	726,794	23,035	3,715
1940.....	4,472	3,717	755	2,938	2,371	638	568	752	732,525	27,466	4,987
1945.....	725	70	656	1,239	57	814	1,182	1,802	731,108	25,793	5,242
1950.....	8,003	6,666	1,337	10,176	8,468	1,270	1,708	1,277	749,300	40,334	8,828
1955.....	9,169	7,920	1,249	14,474	12,453	1,572	2,021	1,618	762,875	52,136	10,569
1960.....	7,869	6,675	1,194	14,515	12,164	1,822	2,351	1,969	73,866	61,565	12,210
1961.....	6,677	5,543	1,134	12,442	10,286	1,856	1,901	1,901	75,954	63,388	12,566
1962.....	8,173	6,933	1,240	15,653	13,072	1,880	2,552	2,082	79,182	66,037	13,094
1963.....	9,101	7,638	1,463	17,517	14,427	1,889	3,090	2,112	82,722	69,084	13,688
1964.....	9,292	7,752	1,540	17,955	14,860	1,917	3,095	2,010	86,297	71,950	14,347

— Entry represents zero. ¹ Includes military vehicles.

² A substantial part of the trucks and buses reported comprises chassis without body; hence, excludes the value of bodies for these chassis. ³ Beginning 1940, includes value of standard equipment.

⁴ Averages do not indicate price changes since total values may reflect changes in number of makes, models, and/or body types from year to year. ⁵ Includes publicly owned vehicles.

⁶ Prior to 1930, buses included with passenger cars.

⁷ Includes Hawaii; not shown in detail. ⁸ Preliminary.

Source: Factory sales—Automobile Manufacturers Association, Detroit, Mich.; *Automobile Facts and Figures*. Registrations—Dept. of Commerce, Bureau of Public Roads; annual report, *Highway Statistics*, and unpublished data.

No. 796. AUTOMOBILE OWNERSHIP, AGE, AND FINANCING: 1950 TO 1964

[Excludes Alaska and Hawaii. For definitions of families and spending units, see text, p. 3, and headnote, table 464, respectively]

ITEM	1950	1955	1960	1961	1962	1963	1964
Total number of families in U.S. ¹.....millions.....	45.7	49.3	53.4	54.2	54.9	56.5	56.8
Total owning automobiles.....percent.....	60	71	77	76	74	80	78
Total number of spending units in U.S. ¹.....millions.....	52.6	54.3	56.8	58.0	58.8	61.2	61.1
Total owning automobiles ².....percent.....	55	67	74	74	72	77	75
Owning 1 automobile.....percent.....	61	59	62	60	58	59	56
Owning 2 or more automobiles.....percent.....	4	8	12	14	14	18	18
Automobiles owned, by age: ³							
Less than 2 years old.....percent.....	17	12	14	13	12	13	13
2 and 3 years old.....percent.....	19	22	20	17	21	18	20
4, 5, 6, and 7 years old.....percent.....	6	43	41	42	38	36	33
8 years old and over.....percent.....	58	23	25	28	29	33	34
Total automobile purchasers ².....millions.....	12.8	15.5	15.4	15.0	17.7		
New car.....millions.....	5.3	6.1	5.3	4.6	5.7		
Average price paid.....dollars.....	2,220	2,940	3,030	2,840	3,020		
Used car.....millions.....	7.5	9.4	10.1	10.4	12.0		
Average price paid.....dollars.....	730	780	820	810	880		
Method of financing by purchasers: ³							
All passenger-car buyers ⁴.....percent.....	100	100	100	100	100		
Full cash (including trade-in allowance).....percent.....	47	38	47	43	45	(NA)	(NA)
Installment credit and other borrowing.....percent.....	52	60	52	56	54		
New passenger-car buyers ⁴.....percent.....	100	100	100	100	100		
Full cash (including trade-in allowance).....percent.....	54	39	39	38	38		
Installment credit and other borrowing.....percent.....	46	60	61	62	62		
Used-passenger-car buyers ⁴.....percent.....	100	100	100	100	100		
Full cash (including trade-in allowance).....percent.....	41	37	52	45	49		
Installment credit and other borrowing.....percent.....	57	60	47	53	50		

NA Not available. ¹ At time of survey, early in year.

² Covers spending units buying cars during year and still owning them at survey time (January-February of following year). ³ Age is determined by subtracting model year from year of survey.

⁴ Includes cars received as gifts whether cash or credit purchased; through 1955, also includes buyers for whom method of financing was not ascertained; detail not available separately.

Source: The University of Michigan, Survey Research Center; *Survey of Consumer Finances*. Prior to 1960, sponsored by Board of Governors of Federal Reserve System. Published periodically in *Federal Reserve Bulletin*.

No. 797. MOTOR VEHICLES—SUMMARY STATISTICS: 1950 TO 1964

[Excludes Alaska and Hawaii, except as noted]

ITEM	1950	1955	1960	1961	1962	1963	1964
SALES, EXPORTS, IMPORTS, AND SCRAPPAGE¹							
Passenger car factory sales.....	1,000	6,666	7,920	6,675	5,543	6,933	7,638
4-door sedans.....	1,000	3,247	3,044	2,697	2,142	2,611	2,727
2-door sedans, coaches and coupes ²	1,000	2,794	1,691	1,094	977	1,124	1,025
2-door and 4-door "hard-tops" ³	1,000	267	2,169	1,517	1,292	1,813	2,430
Convertibles (except "hard-top").....	1,000	208	240	305	300	438	490
Station wagons ⁴	1,000	142	759	1,059	826	944	960
Chassis.....	1,000	9	18	3	5	4	6
Truck and bus factory sales.....	1,000	1,337	1,240	1,194	1,134	1,240	1,463
Passenger cars (new), exported.....	1,000	153	254	145	140	180	198
Passenger cars (new), imported.....	1,000	21	57	444	279	375	409
Exports, value.....	mil. dol.	794	1,367	1,411	1,300	1,401	1,567
Passenger cars (new).....	mil. dol.	179	380	235	215	245	267
Trucks and buses (new).....	mil. dol.	217	340	382	305	254	282
Rubber tires and tubes.....	mil. dol.	47	82	77	61	47	59
Parts and accessories (incl. used vehicles).....	mil. dol.	350	565	717	719	855	959
Imports of new passenger cars, value.....	mil. dol.	21	69	513	307	422	445
Vehicles scrapped ⁵	1,000	3,234	4,392	4,814	4,900	5,422	5,900
Passenger cars ⁶	1,000	2,598	3,773	4,233	4,326	4,767	5,200
Trucks and buses ⁷	1,000	636	619	581	574	654	700
TIRES AND PARTS							
Tires, passenger car: ⁸							
Production.....	1,000	78,598	97,223	105,274	103,388	118,043	122,194
Shipments.....	1,000	84,423	98,730	105,687	104,504	116,830	121,055
Original equipment.....	1,000	36,678	42,574	36,278	30,403	37,461	41,914
Replacement.....	1,000	47,108	50,189	68,475	73,294	79,430	79,077
Export.....	1,000	642	966	934	807	939	964
Inventory, year-end.....	1,000	3,050	15,963	23,593	22,788	24,228	25,479
Tires, truck and bus: ⁹							
Production.....	1,000	14,156	14,955	14,483	13,346	15,769	16,899
Shipments.....	1,000	15,164	14,769	13,911	13,743	15,754	16,592
Original equipment.....	1,000	4,671	4,800	3,925	3,679	4,521	5,220
Replacement.....	1,000	9,705	9,057	9,210	9,510	10,823	10,790
Export.....	1,000	788	912	776	554	610	582
Inventory, year-end.....	1,000	743	2,815	3,957	3,559	3,612	3,973
Replacement parts and accessories, domestic sales (taxable value) ¹⁰	mil. dol.	1,882	1,805	2,313	2,358	2,771	2,818
Replacement auto battery shipments ¹¹	1,000	24,442	25,828	26,329	28,311	30,486	31,840
SPECIAL MOTOR-VEHICLE TAXES¹²							
Special motor-vehicle taxes.....	mil. dol.	4,339	7,212	10,445	10,480	11,355	12,180
Federal excise ¹³	mil. dol.	1,479	2,736	4,397	4,242	4,769	5,246
State gross registration receipts ¹⁴	mil. dol.	1,048	1,483	1,924	1,962	2,060	2,189
State gasoline, net ¹⁵	mil. dol.	1,667	2,543	3,396	3,548	3,762	3,962
Special city and county ¹⁶	mil. dol.	87	159	203	185	185	188
Bridge, tunnel, ferry, road tolls ¹⁷	mil. dol.	157	292	524	544	579	596
TRAFFIC DEATHS¹⁸							
Traffic deaths ¹⁹	number	34,763	38,426	38,137	38,091	40,804	43,564
Noncollision accidents.....	number	10,600	12,100	11,900	12,200	12,900	13,900
Collision accidents:							
With other motor vehicles.....	number	11,650	14,500	14,800	14,700	16,400	17,600
With pedestrians.....	number	9,000	8,200	7,850	7,650	7,900	8,200
With other vehicles or objects.....	number	3,490	3,605	3,613	3,542	3,620	3,900
Traffic death rates:							
Per 100,000 population.....	number	23.0	23.4	21.2	20.8	22.0	23.1
Per 10,000 motor vehicles.....	number	7.1	6.1	5.2	5.0	5.1	5.3
Per 100 million vehicle miles.....	number	7.6	6.4	5.3	5.2	5.3	5.7

NA Not available.

¹ Source: Exports and imports from Dept. of Commerce. ² Includes business coupes.³ Excludes station wagons on commercial vehicle chassis. ⁴ Estimated. ⁵ Includes Alaska and Hawaii.⁶ Preliminary. ⁷ Source: The Rubber Manufacturers Association, Inc.⁸ Excludes government purchases. Estimates based on Federal excise tax receipts.⁹ Source: Association of American Battery Manufacturers.¹⁰ Special taxes on motor-vehicle users. Excludes income and property taxes on motor vehicle, body, parts and tire factories; garages; dealers; repair shops; terminal and truck, including taxicab and bus, operating companies.¹¹ Source: Dept. of the Treasury and Dept. of Commerce. Includes amounts collected on use of vehicles over 26,000 pounds as follows: 1960, \$44,539,000; 1961, \$59,624,000; 1962, \$89,477,000; 1963, \$106,443,000; 1964, not available.¹² Source: Dept. of Commerce.¹³ Estimated from data compiled by Dept. of Commerce. "Special city and county" includes parking meter revenues.¹⁴ Source: National Safety Council. Totals do not equal sum of various types because the estimates generally made only to nearest 10 deaths, and to nearest 50 deaths for certain types.Source: Automobile Manufacturers Association, Detroit, Mich.; *Automobile Facts and Figures*. Includes data compiled from sources cited in footnotes.

No. 798. MOTOR-VEHICLE REGISTRATIONS—STATES: 1930 to 1964

[In thousands. Includes publicly owned vehicles. For uniformity, figures have been adjusted to a calendar-year basis as registration years in States differ. Figures represent net numbers where possible, excluding registrations and nonresident registrations]

STATE	AUTOMOBILES, TRUCKS, AND BUSES									Motor-cycles (incl. off- cial) ¹ 1964 ²
	1930	1940	1950	1955	1960	1964 (prel.)				
						Total	Private and commercial		Publicly owned vehicles, Federal, State, county, etc. ¹	
							Auto- mobiles (incl. tax- i-cabs)	Trucks and buses		
United States ²	26,794	32,525	49,300	62,875	73,866	86,297	71,636	13,471	1,190.9	984.8
Alabama.....	281	346	686	1,041	1,282	1,559	1,265	271	22.1	15.6
Alaska.....	(NA)	(NA)	(NA)	(NA)	81	102	67	30	4.4	1.2
Arizona.....	112	143	271	415	624	792	610	166	16.6	13.3
Arkansas.....	221	261	477	584	708	873	615	248	10.8	7.2
California.....	2,060	2,808	4,620	6,189	7,799	9,539	8,040	1,374	124.9	210.1
Colorado.....	311	358	564	737	924	1,113	848	247	19.1	16.7
Connecticut.....	334	498	716	921	1,107	1,343	1,185	145	18.3	9.5
Delaware.....	57	73	108	154	192	235	169	63	2.4	1.6
District of Columbia.....	159	165	195	197	206	227	200	19	37.8	1.4
Florida.....	331	503	985	1,016	2,367	2,852	2,480	335	37.6	38.8
Georgia.....	345	510	898	1,230	1,512	1,891	1,533	334	24.0	13.6
Hawaii.....	44	72	138	181	231	289	252	32	5.1	7.3
Idaho.....	120	167	272	338	375	420	286	123	10.6	10.7
Illinois.....	1,646	1,939	2,651	3,268	3,776	4,259	3,737	480	42.1	37.1
Indiana.....	880	1,009	1,435	1,763	2,046	2,322	1,891	409	22.1	30.2
Iowa.....	783	803	1,072	1,195	1,325	1,486	1,189	278	19.4	17.1
Kansas.....	508	589	853	1,048	1,163	1,328	969	339	21.2	16.1
Kentucky.....	334	470	784	1,032	1,198	1,419	1,127	275	16.8	10.0
Louisiana.....	279	372	707	952	1,177	1,366	1,067	262	16.6	10.1
Maine.....	188	209	276	323	374	409	330	74	5.8	2.6
Maryland.....	324	449	685	938	1,155	1,394	1,220	161	13.4	6.8
Massachusetts.....	851	914	1,280	1,546	1,803	2,032	1,812	192	27.3	23.2
Michigan.....	1,338	1,671	2,433	3,114	3,306	3,759	3,280	431	47.2	39.8
Minnesota.....	736	879	1,169	1,365	1,502	1,789	1,459	308	21.9	28.3
Mississippi.....	239	264	484	637	723	871	638	217	15.8	4.7
Missouri.....	766	930	1,261	1,490	1,720	2,031	1,629	381	20.4	18.2
Montana.....	137	196	265	336	381	426	288	130	8.7	9.6
Nebraska.....	428	417	569	662	734	832	619	203	10.4	8.0
Nevada.....	30	46	77	124	175	246	182	56	8.1	6.0
New Hampshire.....	113	137	172	212	256	314	262	44	8.3	3.8
New Jersey.....	861	1,100	1,579	2,061	2,401	2,861	2,539	289	33.1	19.5
New Mexico.....	85	128	238	340	426	507	373	124	10.7	7.8
New York.....	2,330	2,775	3,735	4,843	5,067	5,727	5,086	554	86.7	24.5
North Carolina.....	462	607	1,056	1,437	1,720	2,031	1,603	375	52.8	9.2
North Dakota.....	184	184	276	309	345	385	255	124	6.4	4.1
Ohio.....	1,773	1,942	2,795	3,528	4,087	4,671	4,158	468	44.8	48.1
Oklahoma.....	555	584	831	1,026	1,184	1,380	1,007	353	20.4	17.1
Oregon.....	255	401	689	802	919	1,066	862	183	20.0	29.6
Pennsylvania.....	1,775	2,188	3,010	3,737	4,287	4,817	4,189	572	55.7	47.2
Rhode Island.....	137	189	251	308	341	390	345	40	3.9	4.5
South Carolina.....	221	343	579	782	879	1,030	843	167	19.7	5.5
South Dakota.....	206	198	290	325	364	390	276	106	7.7	4.8
Tennessee.....	374	461	858	1,102	1,307	1,565	1,277	264	24.2	13.7
Texas.....	1,378	1,716	2,968	3,869	4,457	5,312	4,180	1,070	62.6	50.1
Utah.....	115	143	247	336	417	505	392	103	9.7	10.0
Vermont.....	87	95	121	136	152	168	135	31	2.6	2.4
Virginia.....	381	509	918	1,243	1,426	1,707	1,433	245	29.5	7.9
Washington.....	452	573	924	1,164	1,377	1,582	1,258	292	32.0	30.3
West Virginia.....	269	309	482	552	601	660	520	130	9.9	6.2
Wisconsin.....	788	913	1,201	1,386	1,600	1,802	1,489	286	27.3	19.6
Wyoming.....	62	88	145	174	207	223	147	71	5.9	4.0

NA. Not available.

¹ Excludes vehicles owned by military services.

² Beginning 1960, includes Alaska.

³ Includes 2,974 automobiles of the diplomatic corps for 1964.

Source: Dept. of Commerce, Bureau of Public Roads; annual report, *Highway Statistics*, and unpublished data.

No. 799. MOTOR-VEHICLE OPERATORS AND CHAUFFEURS LICENSES—STATES: 1963 [In thousands. Incomplete data for some States]

STATE	Licenses in force ¹	LICENSES ISSUED		STATE	Licenses in force ¹	LICENSES ISSUED	
		Operators	Chauffeurs ²			Operators	Chauffeurs ²
United States.....	93,695	40,557	3,536	Missouri.....	2,268	465	193
Alabama.....	1,478	720	(X)	Montana.....	401	148	24
Alaska.....	104	29	(Z)	Nebraska.....	877	742	(X)
Arizona.....	895	272	48	Nevada.....	206	118	12
Arkansas.....	881	846	34	New Hampshire.....	362	101	12
California.....	9,053	2,732	41	New Jersey.....	4,169	2,089	115
Colorado.....	1,158	359	38	New Mexico.....	530	224	64
Connecticut.....	4,483	809	9	New York.....	7,684	1,880	387
Delaware.....	265	49	5	North Carolina.....	2,284	570	73
District of Columbia.....	347	109	(X)	North Dakota.....	369	342	(X)
Florida.....	3,073	1,289	170	Ohio.....	5,100	2,529	219
Georgia.....	2,102	986	98	Oklahoma.....	1,315	600	82
Hawaii.....	441	47	4	Oregon.....	4,009	540	26
Idaho.....	402	206	19	Pennsylvania.....	5,852	4,080	(X)
Illinois.....	5,229	1,424	307	Rhode Island.....	441	203	13
Indiana.....	2,500	885	234	South Carolina.....	4,069	80	77
Iowa.....	1,476	672	154	South Dakota.....	392	73	(X)
Kansas.....	1,825	626	60	Tennessee.....	1,776	1,563	95
Kentucky.....	4,401	650	19	Texas.....	5,101	2,668	160
Louisiana.....	1,858	666	146	Utah.....	548	124	5
Maine.....	463	463	(X)	Vermont.....	194	194	(X)
Maryland.....	4,614	751	56	Virginia.....	2,014	815	89
Massachusetts.....	2,449	1,888	33	Washington.....	1,513	802	(X)
Michigan.....	8,977	1,432	243	West Virginia.....	894	202	43
Minnesota.....	4,876	454	212	Wisconsin.....	1,934	991	69
Mississippi.....	808	526	44	Wyoming.....	226	54	15

X. Not applicable. Z. Less than 500. ¹ Estimated from data reported by States for current and previous years; no allowance made for deaths, emigration, or revocation.

² Includes public service and other special licenses that are issued to operators of vehicles for hire.

³ Special licenses to operate school buses; for Wisconsin, includes 5,281. ⁴ Chauffeurs' licenses not added to operators' licenses since an operator's license is required in addition to the chauffeur's license.

⁵ Special commercial licenses. Includes 20,486 public passenger in Indiana, 43,821 commercial chauffeur in Oklahoma, and 332,621 commercial operator in Texas. ⁶ Special bus drivers licenses.

⁷ A permit to operate "For hire" vehicles is required.

Source: Dept. of Commerce, Bureau of Public Roads; annual report, *Highway Statistics, 1963*.

No. 800. AUTOMOBILE INSURANCE: 1950 TO 1963

[In millions of dollars. Beginning 1960, includes Alaska and Hawaii. 1950, net basis; 1955, direct writing basis; and, beginning 1960, direct premiums earned and direct losses incurred]

YEAR	TOTAL INSURANCE			AUTO. LIABILITY, BODILY INJURY			AUTO. LIABILITY, PROPERTY DAMAGE ¹			PHYSICAL DAMAGE ²		
	Premiums written	Losses paid	Percent losses paid of premium written	Premiums written	Losses paid	Percent losses paid of premium written	Premiums written	Losses paid	Percent losses paid of premium written	Premiums written	Losses paid	Percent losses paid of premium written
1950.....	2,625	1,069	40.7	931	396	42.5	482	231	47.9	1,212	442	36.5
1955.....	4,644	2,122	45.7	1,735	820	47.3	896	415	46.3	2,013	887	43.6
1960.....	6,448	3,045	58.5	2,841	1,697	59.7	1,219	675	55.4	2,388	1,273	53.3
1962.....	8,922	4,084	58.3	3,144	1,849	58.8	1,276	748	58.6	2,602	1,437	57.4
1963.....	7,341	4,459	60.7	3,333	2,017	60.5	1,328	826	62.2	2,680	1,616	60.3

¹ Covers real property against damage by autos. ² Covers auto fire, theft, collision, and comprehensive.

Source: The Spectator, Philadelphia, Pa.; *Insurance Yearbook*, Fire and Casualty Volume; and beginning 1955, *Insurance by States*.

No. 801. SPEED OF MOTOR VEHICLES: 1945 TO 1964

[Excludes Alaska and Hawaii. Based on actual speed of each vehicle recorded on tangent sections of main rural highways during off-peak hours]

ITEM	1945 ¹	1950	1955	1957	1958	1959	1960	1961	1962	1963	1964
Number of vehicles recorded.....	1,000	96	280	395	344	515	398	459	574	602	539
Average speed, all vehicles..... m.p.h.	44.0	47.6	50.7	51.4	51.7	52.0	52.6	52.6	53.8	55.8	55.6
Passenger cars..... m.p.h.	46.0	48.7	52.1	52.6	52.8	53.3	53.8	53.7	55.1	57.1	56.9
Trucks..... m.p.h.	39.8	43.0	45.8	47.0	47.3	47.3	48.2	48.2	49.4	51.3	50.9
Buses..... m.p.h.	46.5	49.8	52.6	52.6	53.0	53.5	55.5	55.3	56.0	58.1	57.3
Vehicles exceeding—											
40 m.p.h..... percent.....	64	77	87	89	90	90	92	92	93	95	94
45 m.p.h..... percent.....	42	58	73	75	77	77	80	80	84	88	86
50 m.p.h..... percent.....	24	37	51	52	55	56	58	60	64	72	70
55 m.p.h..... percent.....	11	20	31	33	33	36	37	38	43	52	52
60 m.p.h..... percent.....	5	8	15	15	15	16	16	18	21	29	30

¹ Aug. 15 to Dec. 31.

Source: Dept. of Commerce, Bureau of Public Roads; unpublished data.

No. 802. MOTOR FUEL CONSUMPTION, BY USE: 1940 TO 1963

[In millions of gallons, except averages. Beginning 1959, includes Alaska and Hawaii. Comprises gasoline and all other fuels under State motor fuel laws. Excludes exports and Federal purchases for military use. Obtained chiefly from reports of State authorities. See *Historical Statistics, Colonial Times to 1957*, series Q 318-320, for highway and nonhighway usage]

ITEM	1940	1945	1950	1955	1959	1960	1961	1962	1963
Total consumption ¹	24,404	22,304	40,280	53,116	62,226	63,714	65,048	66,637	69,311
Highway.....	22,001	19,149	35,653	47,731	56,332	57,878	59,306	61,697	64,516
Nonhighway.....	2,037	2,898	4,178	4,835	5,384	5,332	5,229	2 4,405	2 4,244
Passenger vehicles.....	16,759	14,023	25,037	34,319	40,879	41,996	42,863	44,608	46,383
Passenger cars ³	16,323	13,323	24,305	33,548	40,066	41,169	42,033	43,771	45,545
Buses ⁴	436	700	732	771	823	827	830	837	838
Trucks and combinations.....	5,156	5,055	10,566	13,308	15,453	15,882	16,443	17,089	18,133
Average gallons consumed per vehicle.....	678	617	728	759	782	777	776	774	760
Passenger cars ³	594	517	603	644	666	661	658	657	652
Buses ⁴	3,049	4,294	3,752	3,021	3,106	3,040	2,957	2,906	2,813
Trucks and combinations.....	1,097	1,020	1,257	1,278	1,324	1,330	1,338	1,334	1,351
Average mileage per gallon consumed per vehicle.....	13.79	13.12	12.87	12.67	12.43	12.42	12.44	12.43	12.42
Passenger cars ³	15.29	15.03	14.95	14.53	14.30	14.28	14.38	14.37	14.37
Buses ⁴	6.09	5.48	5.57	5.85	5.28	5.26	5.30	5.34	5.35
Trucks and combinations.....	9.69	9.09	8.57	8.37	7.97	7.96	7.82	7.80	7.82

¹ Includes losses allowed for evaporation, handling, etc.

² Excludes an estimated 2,400 million gallons of aviation jet fuel for 1962 and 2,600 million gallons for 1963.

³ Includes taxicabs and motorcycles. ⁴ Includes school buses.

Source: Dept. of Commerce, Bureau of Public Roads; annual report, *Highway Statistics*.

No. 803. DEATHS FROM MOTOR-VEHICLE ACCIDENTS, BY PLACE OF DEATH: 1950 TO 1963

STATE	PLACE OF DEATH					STATE	PLACE OF DEATH				
	1950	1955	1960	1962	1963		1950	1955	1960	1962	1963
U.S.¹.....	34,763	38,426	38,137	40,804	43,564	Miss.....	525	562	669	657	706
Ala.....	859	859	926	947	1,040	Mo.....	902	1,079	1,078	1,050	1,194
Alaska.....	22	31	43	39	46	Mont.....	209	244	231	264	229
Ariz.....	333	384	507	500	531	Nebr.....	317	331	310	411	358
Ark.....	365	447	440	528	566	Nev.....	122	186	182	185	220
Calif.....	3,082	3,524	3,837	4,219	4,460	N.H.....	103	110	103	117	147
Colo.....	415	455	443	490	519	N.J.....	715	815	764	927	995
Conn.....	287	353	303	348	359	N.Mex.....	340	383	427	455	388
Del.....	84	112	91	99	101	N.Y.....	1,961	2,163	2,034	2,404	2,338
Dist. of						N.C.....	1,153	1,222	1,281	1,372	1,422
Col.....	102	99	82	73	85	N.Dak.....	105	153	166	181	208
Fla.....	882	1,048	1,303	1,412	1,656	Ohio.....	1,850	2,089	1,933	1,865	2,011
Ga.....	928	1,122	1,079	1,169	1,298	Okl.....	504	569	686	714	748
Hawaii.....	74	64	111	91	99	Oreg.....	461	434	469	488	589
Idaho.....	243	184	231	268	293	Pa.....	1,656	1,872	1,685	1,674	1,888
Ill.....	1,953	1,877	1,564	1,786	1,947	R.I.....	87	94	60	90	94
Ind.....	1,136	1,189	1,104	1,239	1,378	S.C.....	627	696	690	754	767
Iowa.....	620	613	644	664	727	S.Dak.....	198	200	241	265	237
Kansas.....	546	613	535	611	642	Tenn.....	801	968	899	978	1,075
Ky.....	753	907	808	844	881	Tex.....	2,499	2,602	2,316	2,486	2,750
La.....	585	703	849	778	849	Utah.....	199	211	269	247	277
Maine.....	161	177	181	187	204	Vt.....	69	87	104	105	116
Md.....	480	500	527	602	609	Va.....	929	909	782	1,013	1,011
Mass.....	492	621	621	705	674	Wash.....	534	514	597	635	651
Mich.....	1,627	2,036	1,634	1,681	1,915	W.Va.....	400	398	371	428	435
Minn.....	558	613	750	743	824	Wis.....	857	954	926	975	912
						Wyo.....	149	145	182	135	135

¹ Beginning 1960, includes Alaska and Hawaii.

Source: Dept. of Health, Education, and Welfare, Public Health Service; annual report, *Vital Statistics of the United States*.

No. 804. MOTORTRUCKS, BY SIZE CLASS AND AREA OF OPERATION—STATES: 1963
[In thousands. As of April 1. See headnote, table 805]

STATE	Total	Not classi- fied	Classi- fied	SIZE CLASS ¹				AREA OF OPERATION ²			
				Light	Medium	Light- heavy	Heavy- heavy	Local	Inter- mediate	Long distance	Not re- ported
U.S.	12,726	651	12,075	8,853	1,128	1,320	774	8,751	895	193	2,236
N.E.	505	22	483	312	59	80	33	373	43	4	63
Maine	75	3	72	49	6	14	4	54	7	(Z)	11
N.H.	47	2	45	30	6	6	3	32	5	1	7
Vt.	30	1	29	18	5	5	2	21	3	(Z)	5
Mass.	185	10	175	105	23	30	18	143	15	2	15
R.I.	38	2	36	23	5	5	3	27	3	(Z)	5
Conn.	129	4	125	86	15	21	4	95	9	1	21
M.A.	1,336	85	1,251	814	137	184	115	977	93	18	163
N.Y.	524	35	489	294	67	84	44	398	31	4	55
N.J.	273	21	252	164	24	40	24	190	20	4	37
Pa.	539	29	510	356	47	60	48	388	41	10	71
E.N.C.	1,976	110	1,866	1,286	224	206	150	1,397	139	31	300
Ohio	449	27	422	281	54	50	37	316	32	8	66
Ind.	386	19	367	264	36	37	30	267	30	10	70
Ill.	462	25	438	290	57	51	39	341	27	5	66
Mich.	406	25	381	269	44	39	28	286	26	6	63
Wis.	272	14	259	182	33	28	16	196	23	3	37
W.N.C.	1,672	78	1,595	1,094	176	247	78	1,187	97	19	291
Minn.	290	16	274	180	37	40	17	201	16	4	53
Iowa	264	12	252	189	24	30	8	197	11	1	43
Mo.	383	22	361	252	33	49	26	270	25	6	59
N. Dak.	119	4	115	69	23	19	4	88	6	1	20
S. Dak.	105	2	102	72	10	17	3	70	9	1	22
Nebr.	192	7	185	124	18	36	7	135	12	3	35
Kans.	320	14	306	207	31	55	12	226	18	3	59
S.A.	1,729	97	1,632	1,197	156	161	118	1,139	126	38	329
Del.	59	5	54	34	6	6	8	37	4	3	9
Md.	149	11	138	93	16	18	11	102	11	1	23
D.C.	17	1	16	9	3	3	1	14	(Z)	(Z)	1
Va.	237	13	223	160	23	27	13	160	17	5	42
W. Va.	127	9	119	92	7	11	9	79	11	2	27
N.C.	351	14	338	254	28	29	26	231	26	11	69
S.C.	157	5	151	123	11	11	6	101	10	1	39
Ga.	311	18	292	218	30	26	18	197	24	5	65
Fla.	322	20	301	214	32	30	26	217	22	9	53
E.S.C.	957	52	905	672	84	87	63	588	63	15	238
Ky.	261	14	247	178	26	29	14	163	17	3	63
Tenn.	247	10	237	164	25	27	21	152	16	6	62
Ala.	250	15	234	180	17	21	16	153	16	5	61
Miss.	199	12	187	149	16	11	12	120	14	1	53
W.S.C.	1,812	104	1,707	1,346	111	146	104	1,193	131	30	354
Ark.	231	10	221	180	16	15	9	150	14	2	54
La.	241	25	216	148	20	24	24	150	24	2	39
Okla.	335	22	313	232	25	41	15	208	21	7	77
Tex.	1,005	47	958	786	49	67	56	684	71	19	184
Mt.	958	38	931	733	63	92	43	650	78	11	192
Mont.	126	6	121	96	14	18	3	88	9	1	23
Idaho	122	6	116	87	8	16	4	78	9	2	26
Wyo.	68	3	65	49	6	6	4	41	10	1	14
Colo.	231	6	225	176	12	25	12	181	15	2	47
N. Mex.	116	7	110	87	6	9	8	70	12	2	26
Ariz.	153	6	147	122	9	8	7	109	9	2	27
Utah	97	3	94	80	6	6	2	65	10	1	19
Nev.	55	1	53	46	2	3	2	38	4	(Z)	11
Pac.	1,771	66	1,705	1,399	119	117	71	1,247	124	28	307
Wash.	273	11	263	200	25	25	12	198	18	5	43
Oreg.	176	12	163	123	15	16	9	114	13	4	31
Calif.	1,265	40	1,225	1,035	73	71	45	892	88	19	226
Alaska	28	1	26	21	2	2	2	21	2	(Z)	4
Hawaii	30	2	28	19	3	3	3	22	2	(Z)	4

Z Less than 500 trucks.

¹ Based on physical characteristics of vehicles reported; approximates following classification in terms of gross vehicle weight (empty weight of vehicle plus load it was designed to carry): Light—10,000 lb. or less; Medium—10,001 to 19,500 lb.; Light-heavy—19,501 to 26,000 lb.; Heavy-heavy—over 26,000 lb.

² Local—in or around city and suburbs or within a short distance of the farm, factory, or home base of the vehicle; Intermediate—beyond local limits but usually not more than 200 miles, one way, from home base of vehicle; Long distance—trips usually more than 200 miles, one way, from home base.

Source: Dept. of Commerce, Bureau of the Census; 1963 Truck Inventory and Use Survey, U.S. Summary Report, TO 63 (A)-T81.

No. 805. MOTORTRUCKS, BY MAJOR USE—STATES: 1963

[In thousands. As of April 1. Includes private and commercial single-unit trucks and combinations. Based on a probability sample of truck license holders, and subject to sampling variability. For total trucks, see table 804]

STATE	Agri- culture	Per- sonal	For hire	Contract construc- tion	Manu- factur- ing	Whole- sale and retail business	Services	Other business	Other uses
United States.....	3,528	3,114	679	1,198	528	1,664	930	351	83
New England.....	72	108	36	71	26	101	51	15	3
Maine.....	17	20	3	8	4	11	6	2	(Z)
New Hampshire.....	8	12	3	6	3	8	4	1	(Z)
Vermont.....	9	6	2	2	1	5	2	1	(Z)
Massachusetts.....	16	25	19	28	11	47	21	8	1
Rhode Island.....	3	7	3	5	2	9	5	1	(Z)
Connecticut.....	19	38	6	21	6	20	13	2	(Z)
Middle Atlantic.....	160	235	121	179	84	270	146	41	16
New York.....	67	72	51	69	32	110	64	15	8
New Jersey.....	21	38	28	47	18	54	38	5	3
Pennsylvania.....	71	126	42	62	34	106	44	21	5
East North Central.....	575	343	138	200	98	298	140	57	17
Ohio.....	116	63	33	53	25	79	36	12	4
Indiana.....	117	95	24	32	15	51	21	8	3
Illinois.....	140	64	45	50	21	71	35	16	5
Michigan.....	97	95	19	39	23	62	30	14	3
Wisconsin.....	114	26	17	25	14	36	19	7	2
West North Central.....	811	253	78	114	43	157	91	41	7
Minnesota.....	115	44	19	24	9	33	18	10	1
Iowa.....	129	33	11	21	6	30	15	6	2
Missouri.....	144	68	25	31	12	43	25	10	2
North Dakota.....	86	9	3	5	1	7	3	2	(Z)
South Dakota.....	60	17	4	5	2	8	5	1	(Z)
Nebraska.....	105	27	7	12	4	17	8	5	1
Kansas.....	171	55	10	16	8	20	18	7	1
South Atlantic.....	426	408	96	163	86	248	140	49	15
Delaware.....	11	13	7	7	3	7	5	1	1
Maryland.....	22	29	11	20	8	26	15	5	2
District of Columbia.....	(Z)	1	1	3	1	6	3	1	(Z)
Virginia.....	65	57	14	21	11	28	16	8	2
West Virginia.....	23	45	8	7	6	16	9	5	1
North Carolina.....	119	73	22	25	19	48	21	8	2
South Carolina.....	54	42	3	17	6	16	8	4	(Z)
Georgia.....	85	78	13	20	17	46	20	9	3
Florida.....	46	71	16	43	16	56	42	8	4
East South Central.....	380	203	38	51	34	114	56	25	5
Kentucky.....	105	52	11	15	9	30	16	8	1
Tennessee.....	105	40	13	16	12	30	15	4	2
Alabama.....	77	70	8	15	8	32	16	7	1
Mississippi.....	93	41	5	6	6	21	10	5	1
West South Central.....	566	487	77	132	73	190	113	63	7
Arkansas.....	95	68	4	12	5	20	11	5	(Z)
Louisiana.....	51	52	13	17	15	37	18	12	1
Oklahoma.....	125	76	16	22	10	31	20	10	2
Texas.....	296	280	44	80	42	102	65	36	3
Mountain.....	268	365	27	75	18	87	56	30	4
Montana.....	59	31	3	7	2	10	6	3	1
Idaho.....	51	38	4	5	3	8	5	1	(Z)
Wyoming.....	21	23	3	6	2	3	4	3	(Z)
Colorado.....	73	83	7	15	4	22	13	7	1
New Mexico.....	23	52	4	7	1	10	8	4	(Z)
Arizona.....	15	64	3	19	3	21	13	8	1
Utah.....	20	44	2	9	2	10	4	3	1
Nevada.....	6	30	1	6	(Z)	4	4	2	(Z)
Pacific.....	270	711	69	214	67	198	136	31	10
Washington.....	73	104	10	21	9	24	16	3	2
Oregon.....	46	64	6	10	5	19	7	4	1
California.....	143	524	49	174	50	147	108	23	6
Alaska.....	1	13	2	4	1	3	2	1	(Z)
Hawaii.....	6	6	2	5	2	5	3	(Z)	(Z)

Z Less than 500 trucks.

* Source: Dept. of Commerce, Bureau of the Census; 1963 Truck Inventory and Use Survey, U.S. Summary Report, TC 63 (A)-T61.

No. 806. CLASS I INTERCITY MOTOR CARRIERS OF PROPERTY—SUMMARY OF FINANCIAL AND OPERATING STATISTICS: 1950 TO 1963

[All money figures in millions of dollars, except averages. Excludes Alaska and Hawaii. See text, p. 557, for explanation of class limits]

ITEM	1950	1955	1960	1962	1963
Number of carriers reporting.....	1,621	2,244	935	1,004	1,004
Investment in carrier operating property.....	748	1,515	1,992	2,286	2,432
Reserve for depreciation and amortization.....	309	736	998	1,177	1,251
Income statement:					
Operating revenue.....	2,380	4,080	4,763	5,428	5,756
Common carrier.....	2,181	3,622	4,384	5,072	5,388
Contract carrier.....	144	294	239	210	212
Other operating revenue.....	55	114	141	147	156
Expenses.....	2,215	3,870	4,645	5,204	5,520
Operation and maintenance expenses.....	1,968	3,497	4,151	4,646	4,929
Depreciation and amortization ¹	84	157	202	221	230
Operating taxes and licenses ²	103	216	291	337	361
Operating rents, net.....	59	(NA)	(NA)	(NA)	(NA)
Operating ratio (percent expenses of operating revenue).....	93.1	94.0	97.5	95.9	95.9
Net operating revenue.....	165	160	119	224	236
Lease of distinct operating unit, net.....	1	1	1	2	2
Other income, less income deductions.....	6	14	56	38	58
Net income before income taxes.....	159	146	81	184	196
Net income after income taxes.....	93	82	37	112	122
Dividend appropriations and withdrawals ³	23	29	24	27	37
Operating statistics and averages:					
Owned revenue vehicles ⁴	191,243	288,668	279,305	298,206	308,687
Intercity vehicle-miles..... millions.....	5,352	7,559	7,203	7,667	7,882
Tons of intercity revenue freight carried ⁵ 1,000.....	212,997	313,583	275,518	320,840	337,734
Miles per owned vehicle.....	53,833	53,008	59,590	62,917	63,211
Revenue per vehicle-mile (intercity).....	\$0.43	\$0.52	\$0.64	\$0.70	\$0.71
Expense per vehicle-mile (intercity) ⁶	\$0.41	\$0.51	\$0.55	\$0.69	\$0.70

NA. Not available.

¹ Amortization represents a very small part of this total.

² Excludes Federal and State income taxes.

³ Withdrawals of sole proprietors and partners.

⁴ Excludes equipment used under lease, including operations conducted under "purchased transportation" arrangements.

⁵ Includes duplications on account of tonnage received from connecting motor carriers.

⁶ Basic figures include expenses of operating vehicles in local services not available separately.

No. 807. CLASS I INTERCITY MOTOR CARRIERS OF PROPERTY—SELECTED OPERATING STATISTICS, BY REGIONS: 1962 AND 1963

[Money figures in millions of dollars. Excludes Alaska and Hawaii. See text, p. 557, for explanation of class limits. Regions: 1, Conn., Maine, Mass., N.H., R.I., Vt.; 2, Del., D.C., Md., N.J., N.Y., Pa., W. Va.; 3, Ill., Ind., Mich. (Lower Pen.), Ohio; 4, Ala., Fla., Ga., Ky., Miss., N.C., S.C., Tenn., Va.; 5, Mich. (Upper Pen.), Minn., N. Dak., S. Dak., Wis.; 6, Iowa, Kans., Mo., Neb.; 7, Ark., La., Okla., Tex.; 8, Colo., Idaho, Mont., N. Mex., Utah, Wyo.; 9, Ariz., Calif., Nev., Oreg., Wash.]

REGION AND YEAR	Number of carriers reporting	Operating revenue	Total expenses	OWNED REVENUE VEHICLES ¹				Inter-city vehicle-miles (millions)	EMPLOYEES ²	
				Trucks	Truck-tractors	Semi-trailers	Full trailers		Average number	Compensation
1962.....	1,004	5,428	5,204	31,462	91,212	172,531	3,001	7,567	343,215	2,379
1. New England.....	65	217	211	1,851	3,710	6,194	-	202	18,488	109
2. Middle Atlantic.....	203	643	613	5,983	10,055	32,473	150	1,170	63,080	433
3. Central.....	271	1,655	1,687	3,973	24,212	48,287	714	2,350	90,486	661
4. Southern.....	156	850	806	6,127	16,751	50,704	109	1,370	59,326	383
5. Northwestern.....	53	308	295	1,751	5,801	9,849	-	428	19,639	138
6. Midwestern.....	59	326	321	1,992	5,834	11,218	98	473	20,840	141
7. Southwestern.....	74	301	307	2,787	7,042	11,013	8	638	25,695	169
8. Rocky Mountain.....	34	253	238	1,954	3,287	6,668	291	363	15,488	112
9. Pacific.....	89	485	468	5,344	8,470	16,155	1,571	582	31,625	232
1963.....	1,004	5,756	5,520	32,039	93,843	179,862	2,923	7,882	351,104	2,546
1. New England.....	65	223	218	1,916	3,810	6,420	-	206	17,045	116
2. Middle Atlantic.....	206	980	946	6,035	16,696	34,060	124	1,207	63,857	453
3. Central.....	284	1,745	1,673	3,886	24,523	48,773	767	2,422	91,460	702
4. Southern.....	159	906	862	6,526	17,624	33,029	169	1,446	62,230	414
5. Northwestern.....	57	335	319	1,708	6,116	10,341	13	482	19,925	149
6. Midwestern.....	66	347	338	2,010	5,730	12,008	35	468	20,848	150
7. Southwestern.....	70	418	392	2,893	7,051	11,140	51	665	26,495	181
8. Rocky Mountain.....	33	265	251	1,725	3,466	7,157	258	366	15,779	120
9. Pacific.....	84	537	521	5,333	8,827	16,954	1,506	621	33,465	260

- Entry represents zero.

¹ See footnote 4, table 806.

² Excludes drivers of equipment engaged to perform "purchased transportation" service.

Source of tables 806 and 807: Interstate Commerce Commission; annual report, *Transport Statistics in the United States*, Part 7.

No. 808. CLASS I INTERCITY MOTOR CARRIERS OF PASSENGERS—SUMMARY OF FINANCIAL AND OPERATING STATISTICS: 1950 TO 1963

[All money figures in millions of dollars, except average fare, and revenue and expense per vehicle-mile. Excludes Alaska and Hawaii. See headnote, table 806. Excludes carriers subject to ICC jurisdiction engaged preponderantly in local or suburban service and carriers engaged in transportation of both property and passengers]

ITEM	1950	1955	1960	1962	1963
Number of carriers reporting	172	146	143	151	148
Investment in carrier operating property	286	373	466	554	580
Reserve for depreciation and amortization	144	197	257	286	295
Income statement:					
Operating revenue	351	362	463	589	610
Passenger revenue ¹	325	315	382	485	498
Special bus revenue	12	22	36	47	51
Other operating revenue	15	25	45	56	61
Expenses	315	331	405	511	529
Operation and maintenance expenses	255	270	334	426	441
Depreciation and amortization ²	27	27	29	34	33
Operating taxes and licenses ³	29	30	36	44	45
Operating rents, net	4	3	6	7	10
Operating ratio (percent expenses of operating revenue)	89.7	91.4	87.5	86.8	86.8
Net operating revenue	36	31	58	77	81
Other income, less income deductions	4	4	4	4	1
Net income before income taxes	35	29	55	75	82
Net income after income taxes	19	16	28	43	48
Dividend appropriations and withdrawals ⁴	16	28	8	6	9
Operating statistics and averages:					
Passenger vehicles owned, end of year	13,200	11,547	10,946	13,873	13,608
Vehicle-miles of owned and leased passenger vehicles ⁵	1,000	958,530	859,207	843,239	907,693
Number of revenue passengers carried	1,000	359,898	293,244	267,507	325,901
Miles per vehicle ⁶	1,000	65,411	64,128	65,567	67,142
Average fare per passenger, per carrier, intercity service	\$1.01	\$1.37	\$2.12	\$2.30	\$2.38
Passenger revenue per vehicle-mile, regular route intercity	\$0.35	\$0.38	\$0.49	\$0.52	\$0.52
Expense per vehicle-mile ⁷	\$0.33	\$0.38	\$0.48	\$0.51	\$0.53

¹ Regular route intercity and local revenue.

² Amortization represents a very small part of this total.

³ Excludes Federal and State income taxes.

⁴ Deduct.

⁵ Withdrawals of sole proprietors and partners.

⁶ Includes bus-miles of vehicles operated under "purchased transportation" arrangements.

⁷ Averages for owned and leased vehicles.

⁸ See footnote 6, table 806.

No. 809. CLASS I INTERCITY MOTOR CARRIERS OF PASSENGERS—SELECTED OPERATING STATISTICS, BY REGIONS: 1962 AND 1963

[Excludes Alaska and Hawaii. See headnote, table 808; for description of regions, see headnote, table 807]

REGION AND YEAR	Number of carriers reporting	Operating revenue (\$1,000)	Total expenses (\$1,000)	PASSENGER VEHICLES		REGULAR-ROUTE INTERCITY			EMPLOYEES	
				Total ¹	Intercity ²	Vehicle-miles (1,000)	Revenue passengers carried (1,000)	Average fare per passenger, per carrier	Average number	Compensation (\$1,000)
1962	151	588,557	511,103	15,549	10,077	787,293	176,493	\$2.30	41,961	260,333
1. New England	14	19,865	18,363	781	314	19,088	6,141	1.57	1,720	9,407
2. Middle Atlantic	42	119,968	115,430	4,592	1,335	85,612	44,520	1.05	10,752	63,224
3. Central	25	109,100	93,804	2,075	1,878	150,117	30,269	2.88	7,541	49,340
4. Southern	19	110,127	90,812	2,400	2,184	180,041	41,614	2.08	7,137	42,433
5. Northwestern	4	1,897	1,649	76	65	3,412	491	2.54	116	690
6. Midwestern	8	72,163	59,910	1,359	1,182	114,755	16,892	3.54	4,182	28,114
7. Southwestern	21	50,166	42,628	2,093	1,314	90,291	15,174	2.42	3,648	19,144
8. Rocky Mountain	10	7,368	6,472	351	303	12,476	2,207	2.31	609	3,107
9. Pacific	8	97,614	82,235	1,822	1,502	131,501	19,184	3.79	6,250	44,874
1963	148	609,756	529,008	15,338	9,953	800,461	175,909	2.38	42,070	270,096
1. New England	12	19,379	18,357	683	327	19,465	5,786	1.75	1,650	9,154
2. Middle Atlantic	42	125,504	121,022	4,597	1,425	88,137	45,414	1.09	11,004	65,998
3. Central	22	115,038	97,687	1,895	1,780	153,934	29,731	3.14	7,383	60,379
4. Southern	20	114,005	94,144	2,451	2,243	185,825	41,688	2.14	7,154	45,027
5. Northwestern	4	2,051	1,825	79	64	3,421	486	2.58	126	734
6. Midwestern	7	20,289	18,555	525	337	37,889	3,496	4.50	1,173	6,958
7. Southwestern	23	52,814	44,170	2,114	1,291	90,197	15,024	2.52	3,712	20,082
8. Rocky Mountain	10	7,308	6,895	348	290	12,293	2,144	2.32	617	3,211
9. Pacific	8	153,288	126,552	2,076	2,196	209,299	32,142	3.65	9,251	68,553

¹ Comprises average number operated in intercity service during year and number owned in local operations at close of year.

² Comprises vehicles owned, leased, and operated under "purchased transportation" arrangements, operated in intercity revenue service.

Source of tables 808 and 809: Interstate Commerce Commission; annual report, *Transport Statistics in the United States*, Part 7, and unpublished data.

No. 810. TRANSIT INDUSTRY—SUMMARY: 1940 TO 1963

[Money figures in millions of dollars, except as noted. Beginning 1960, includes Alaska and Hawaii. Comprises all privately and publicly owned organized local passenger transportation agencies except taxicabs, suburban railroads, and sightseeing and school buses. Covers (a) local motorbus lines, (b) electric street railways, (c) elevated and subway lines, (d) interurban electric railways and (e) trolley coach lines. Based on financial and statistical reports received by American Transit Association from transit companies representing more than 85 percent of the industry. See also *Historical Statistics, Colonial Times to 1957*, series Q 330-340]

ITEM	1940	1945	1950	1955	1959	1960	1961	1962	1963
Operating companies.....	(NA)	1,253	1,406	1,493	1,272	1,251	1,247	1,205	1,186
Motorbus companies.....	(NA)	1,164	1,354	1,450	1,255	1,236	1,244	1,202	1,183
Miles of route operated (Dec. 31):									
Electric railway—single track.....	19,602	17,702	10,813	6,197	3,445	3,143	2,601	2,557	2,236
Surface.....	18,360	16,480	9,590	4,976	2,200	1,900	1,355	1,312	990
Subway and elevated.....	1,242	1,222	1,223	1,221	1,245	1,243	1,246	1,245	1,246
Trolley coach—negative overhead wire.....	1,925	2,313	3,513	3,428	2,491	2,196	2,017	1,849	1,119
Motorbus—route round trip.....	78,000	90,400	98,000	99,800	106,800	108,700	111,500	114,300	117,400
Passenger vehicles owned (Dec. 31):									
Electric railway cars.....	75,464	89,758	86,310	73,089	65,780	65,292	64,012	63,045	62,180
Surface.....	37,662	35,377	22,966	14,532	11,983	11,866	11,419	11,084	10,625
Subway and elevated.....	26,680	26,160	13,228	5,800	2,983	2,866	2,341	2,219	1,756
Trolley coaches.....	11,032	10,217	9,758	9,232	9,000	9,010	9,078	8,865	8,889
Motorbuses.....	2,802	3,711	6,504	6,167	4,297	3,826	3,593	3,161	2,155
Investment (Dec. 31).....	4,096	4,262	3,918	3,821	3,854	3,937	3,919	4,002	4,025
Electric railway.....	3,588	3,620	3,060	2,902	2,938	3,003	2,967	3,042	3,078
Surface.....	1,574	1,570	913	616	378	367	235	229	175
Subway and elevated.....	2,014	2,050	2,147	2,286	2,560	2,636	2,732	2,813	2,901
Trolley coach.....	58	76	144	160	125	117	115	106	70
Motorbus.....	450	568	714	759	791	817	837	854	879
Operating finances:									
Operating revenue.....	737	1,380	1,452	1,426	1,376	1,407	1,390	1,404	1,390
Electric railway.....	456	710	578	440	365	369	366	366	348
Surface.....	328	560	362	176	93	88	80	73	61
Subway and elevated.....	128	149	216	264	272	282	286	293	287
Trolley coach.....	25	68	122	131	91	82	79	76	56
Motorbus.....	256	603	752	856	920	966	945	961	936
Operating expenses.....	598	1,067	1,297	1,277	1,266	1,290	1,296	1,306	1,315
Percent of revenue.....	81.1	77.3	89.3	89.6	92.0	91.7	93.2	93.1	94.6
Net revenue.....	139	313	155	149	110	117	94	98	76
Taxes (all).....	63	165	89	93	85	87	77	78	79
Operating income.....	76	149	66	56	26	31	17	20	24
Percent of revenue.....	10.4	10.8	4.6	3.9	1.9	2.2	1.2	1.4	(3)
Revenue vehicle-miles operated									
millions.....	2,596	3,254	3,008	2,448	2,159	2,143	2,077	2,047	2,022
Electric railway.....	1,316	1,398	907	561	470	466	455	448	436
Surface.....	845	940	483	178	81	75	69	62	49
Subway and elevated.....									
millions.....	471	458	443	383	389	391	385	387	387
Trolley coach.....	86	133	206	177	112	101	93	84	62
Motorbus.....	1,195	1,722	1,896	1,710	1,577	1,576	1,530	1,515	1,523
Passengers carried.....	13,098	23,254	17,246	11,529	9,557	9,395	8,883	8,695	8,400
Electric railway.....	8,325	12,124	6,168	3,077	2,349	2,313	2,289	2,283	2,185
Surface.....	5,943	9,426	3,904	1,207	521	463	434	393	329
Subway and elevated.....									
millions.....	2,382	2,698	2,264	1,870	1,828	1,850	1,855	1,890	1,836
Trolley coach.....	534	1,244	1,658	1,202	749	667	601	547	413
Motorbus.....	4,239	9,886	9,420	7,260	6,459	6,425	5,993	5,865	5,822
Revenue passengers carried									
millions.....	10,504	18,982	13,845	9,189	7,650	7,521	7,242	7,122	6,915
Electric railway.....	6,464	9,636	4,903	2,586	2,025	2,006	2,003	1,968	1,899
Surface.....	4,183	7,081	2,790	845	378	385	323	284	238
Subway and elevated.....									
millions.....	2,282	2,555	2,113	1,741	1,647	1,670	1,680	1,704	1,661
Trolley coach.....	419	1,001	1,261	989	617	447	405	361	264
Motorbus.....	3,620	8,345	7,681	5,734	5,108	5,069	4,834	4,773	4,752
Number of employees (average).....	203,000	242,000	240,000	198,000	159,100	156,400	151,800	149,100	147,200
Electric railway.....	128,000	129,200	90,900	66,000	47,700	46,500	43,700	43,200	(NA)
Trolley coach.....	6,000	8,500	15,400	16,000	10,700	9,400	8,600	7,600	(NA)
Motorbus.....	74,000	104,300	133,700	116,000	100,700	100,500	99,500	98,300	(NA)
Payroll.....	360	632	835	864	832	857	856	878	892
Average annual earnings per employee.....dollars.....	1,778	2,612	3,479	4,364	5,229	5,481	5,642	5,889	6,062

NA Not available. ¹ Comprises companies operating motorbuses exclusively and companies with combined services such as trolley coach and motorbus, etc.

² Deficit. ³ Deficits not computed as percent of operating revenue.

Source: American Transit Association, New York, N. Y.; annual report, *Transit Fact Book*.

No. 811. INTERCITY BUS LINES—SUMMARY OF OPERATIONS: 1960 TO 1964

[Excludes Alaska and Hawaii]

ITEM	1960	1961	1962	1963 estimate	1964 estimate
Operating companies.....	1,550	1,550	1,450	1,450	1,450
Buses.....	24,530	25,830	26,100	26,400	27,100
Miles of highway served (Dec. 31) ¹	238,000	239,000	240,000	241,000	242,000
Employees (Dec. 31) ²	48,800	49,800	50,600	51,100	52,300
Total bus miles.....millions.....	1,177	1,203	1,242	1,264	1,310
Revenue passengers.....millions.....	456.8	462.2	460.9	456.9	459.2
Revenue passenger-miles.....millions.....	19,900	19,700	21,300	21,900	22,700
Operating revenue, all services.....\$1,000.....	584,400	609,600	658,700	686,400	729,500
Operating expenses.....\$1,000.....	522,700	543,400	576,100	601,700	637,400
Net operating revenue before income taxes.....\$1,000.....	61,700	66,200	82,600	84,700	92,100
Taxes assignable to operations ³.....\$1,000.....	56,000	58,700	62,700	63,900	67,200

¹ Includes duplication between carriers.² Operating companies only.³ Excludes income taxes.Source: National Association of Motor Bus Owners, Washington, D.C.; *Bus Facts*.

No. 812. RAILROADS—MILES OF ROAD OWNED, STATES: 1940 TO 1963

[As of December 31. Data are for actual length of line in each State without duplication]

STATE	1940	1950	1960	1963	STATE	1940	1950	1960	1963
U. S.	234,398	224,371	217,552	214,387	S. A.—Con.				
N. E.	6,677	6,396	6,088	5,877	W. Va.	3,831	3,719	3,681	3,630
Maine.....	1,882	1,830	1,784	1,713	N. C.	4,668	4,435	4,310	4,266
N. H.	1,002	936	854	836	S. C.	3,466	3,223	3,284	3,266
Vt.	919	889	811	804	Ga.	6,334	6,043	5,854	5,745
Mass.	1,793	1,726	1,633	1,581	Fla.	5,218	4,793	4,655	4,579
R. I.	194	185	181	158	E. S. C.	16,179	15,874	15,233	15,162
Conn.	887	830	825	785	Ky.	3,691	3,641	3,526	3,527
M. A.	20,175	19,180	17,469	16,908	Tenn.	3,573	3,471	3,402	3,382
N. Y.	7,739	7,493	6,463	6,060	Ala.	4,996	4,723	4,646	4,622
N. J.	2,108	1,992	1,914	1,853	Miss.	3,919	3,739	3,659	3,631
Pa.	10,328	9,695	9,092	8,995	W. S. C.	31,497	29,771	28,341	27,966
E. N. C.	41,281	39,851	38,949	38,374	Ark.	4,482	4,104	3,872	3,826
Ohio.....	8,501	8,418	8,322	8,176	La.	4,357	4,079	3,937	3,904
Ind.	6,889	6,652	6,593	6,525	Okla.	6,302	5,977	5,777	5,647
Ill.	11,949	11,643	11,201	11,005	Tex.	16,356	15,611	14,755	14,589
Mich.	7,303	6,803	6,640	6,502	Mt.	23,518	22,101	21,355	20,941
Wis.	6,639	6,335	6,193	6,166	Mont.	5,149	5,059	4,962	4,940
W. N. C.	48,293	47,108	46,367	45,859	Idaho.....	2,746	2,713	2,685	2,684
Minn.	8,421	8,333	8,174	8,044	Wyo.	2,008	1,925	1,882	1,882
Iowa.....	8,950	8,585	8,561	8,443	Colo.	4,552	4,273	3,786	3,788
Mo.	7,042	6,735	6,582	6,532	N. Mex.	2,812	2,496	2,473	2,202
N. Dak.	5,266	5,256	5,194	5,195	Ariz.	2,228	2,197	2,184	2,077
S. Dak.	4,006	3,958	3,920	3,909	Utah.....	2,082	1,788	1,736	1,734
Nebr.	6,044	5,800	5,721	5,583	Nev.	1,941	1,650	1,647	1,634
Kans.	8,564	8,441	8,215	8,153	Pac.	17,303	16,466	16,388	16,271
S. A.	29,475	27,924	27,362	27,029	Wash.	5,243	6,124	4,987	4,958
Del.	295	295	293	293	Oreg.	3,385	3,217	3,174	3,169
Md.	1,367	1,309	1,141	1,135	Calif.	7,947	7,533	7,630	7,547
D. C.	35	34	31	31	Alaska.....	636	567	572	572
Va.	4,261	4,073	4,113	4,084	Hawaii.....	192	25	25	25

Source: Interstate Commerce Commission; annual reports, *Statistics of Railways in the United States*, and, beginning 1960, *Transport Statistics in the United States*, Part I.

No. 813. RAILROADS—SUMMARY STATISTICS: 1930 TO 1963

[As of December 31. Beginning 1960, includes Alaska and Hawaii. Includes intercorporate duplications. See also *Historical Statistics, Colonial Times to 1957*, series Q 44-124]

ITEM	1930	1940	1950	1955	1960	1961	1962	1963
Operating companies ¹.....number.....	775	574	471	441	407	397	395	395
Road owned, first track ².....miles.....	249,052	233,870	223,779	220,670	217,552	216,445	215,090	214,387
Miles operated: ³								
Total, reporting railroads ⁴	429,883	405,975	396,380	390,965	381,745	379,415	376,290	374,522
Road, first track ⁵	280,440	245,740	236,857	233,955	230,169	229,369	227,851	227,282
Other main tracks.....	42,742	41,373	40,456	38,825	34,800	33,853	32,719	32,153
Yardtrack and sidings.....	126,701	118,862	119,067	118,185	116,776	116,193	115,720	115,087
Miles of road operated by receivers or trustees.....	9,486	75,270	12,223	1,938	1,259	2,365	2,113	1,748
Equipment:								
Locomotives in service.....number.....	60,189	44,333	42,951	33,533	31,178	30,889	30,701	30,506
Average tractive effort ⁶.....pounds.....	45,225	50,905	57,075	65,005	61,314	61,969	61,415	61,533
Cars in service:								
Passenger-train.....number.....	53,584	38,308	37,359	32,118	25,746	24,433	23,430	22,616
Freight-train ⁷.....thousands.....	2,322	1,684	1,746	1,724	1,690	1,635	1,581	1,542
Average capacity ⁸.....tons.....	46.9	50.0	52.6	53.7	55.4	55.7	56.3	56.8
Capital and property investment: ⁹								
Road and equipment, book value ⁹.....mil. dol.....	26,051	25,646	30,174	33,035	35,513	35,542	34,861	34,519
Depreciation reserve ¹⁰.....mil. dol.....	2,361	3,095	6,629	7,314	8,532	8,793	8,982	9,144
Capital outstanding ¹¹.....mil. dol.....	24,331	23,371	20,399	19,309	17,864	16,830	16,690	16,736
Net capitalization.....mil. dol.....	19,066	17,630	15,618	15,171	14,150	13,164	12,968	12,840
Stock paying dividends.....mil. dol.....	7,702	3,741	6,769	7,300	5,617	4,362	4,286	4,402
Dividends declared.....mil. dol.....	603	217	349	476	412	385	394	413
Interest accrued on funded debt.....mil. dol.....	589	547	367	374	387	383	376	378
Income and expenses:								
Operating revenues.....mil. dol.....	5,356	4,355	9,587	10,230	9,642	9,310	9,663	9,635
Operating expenses.....mil. dol.....	3,994	3,132	7,135	7,724	7,657	7,362	7,608	7,542
Tax accruals.....mil. dol.....	364	403	1,212	1,101	1,020	1,012	926	906
Operating income.....mil. dol.....	1,008	820	1,240	1,404	964	936	1,130	1,236
Net income ¹².....mil. dol.....	578	243	855	959	473	410	600	681
Passenger service:								
Passenger revenue.....mil. dol.....	731	418	815	744	641	626	620	590
Passengers carried.....millions.....	708	456	488	433	327	318	313	311
Passenger-miles.....millions.....	26,876	23,516	31,790	28,548	21,284	20,308	19,626	18,519
Commutation ¹³.....millions.....	6,669	3,997	4,990	4,776	4,197	4,132	4,046	4,101
Coach ¹⁴.....millions.....	(NA)	12,485	17,443	17,314	13,422	12,893	12,757	11,785
Parlor and sleeping car ¹⁵.....millions.....	(NA)	7,288	9,338	6,441	3,643	3,262	3,102	2,611
Revenue per passenger-mile.....cents.....	2.72	1.76	2.56	2.61	3.01	3.08	3.11	3.18
Average journey per passenger.....miles.....	37.96	52.22	65.14	65.88	65.05	63.79	63.65	59.55
Freight service:								
Freight revenue.....mil. dol.....	4,145	3,584	7,934	8,665	8,152	7,859	8,115	8,271
Revenue-tons originated.....millions.....	1,220	1,069	1,421	1,459	1,301	1,253	1,294	1,347
Tons carried one mile.....millions.....	385,815	375,369	591,550	626,893	575,350	565,295	595,774	625,170
Revenue ton-miles per mile of road.....	1,481	1,526	2,497	2,679	2,497	2,461	2,612	2,750
Revenue per ton-mile.....cents.....	1.074	0.955	1.341	1.382	1.417	1.388	1.362	1.323
Haul per ton.....miles.....	316.21	351.13	416.82	428.75	442.14	452.00	460.57	463.97
Number of employees, average.....thousands.....	1,517	1,046	1,237	1,071	793	727	711	691
Compensation of employees.....mil. dol.....	2,589	1,991	4,645	5,045	4,957	4,684	4,722	4,690
Accidents:								
Persons killed.....number.....	5,655	4,740	3,486	2,849	2,248	2,127	2,106	2,140
Persons injured.....number.....	49,443	29,606	33,267	27,846	19,577	27,118	26,880	27,456

NA. Not available.

¹ Line-haul operating.

² Excludes all duplications; also excludes some mileage in Canada.

³ Includes some duplication under trackage rights and some mileage in Canada.

⁴ Excludes circular and unofficial.

⁵ 1930-1955 average for steam locomotives only; beginning 1960, all locomotives.

⁶ Covers class I railroads, excluding switch and terminal companies. ⁷ Excludes caboose cars. ⁸ Includes lessors.

⁹ Increase in investment over a period of years cannot be obtained accurately by subtraction of 1 year's investment from that of another owing to reorganization, sale or abandonment, reclassification, etc. Includes lessor companies and proprietary companies except those which are part of systems filing consolidated annual reports.

¹⁰ For 1950 and later years, includes amortization of defense projects and proprietary companies.

¹¹ Comprises actually outstanding, nominally issued, and nominally outstanding securities, and equipment obligations. ¹² Class I railroads.

Source: Interstate Commerce Commission; annual report, *Transport Statistics in the United States*, Part 1, and *Accident Bulletin*.

No. 814. RAILROAD COMPANIES, BY CLASS: 1950 to 1963

[Beginning 1960, includes Alaska and Hawaii. See text, p. 557, for explanation of class limits]

CLASS OF COMPANY	1950	1955	1958	1959	1960	1961	1962	1963
Total	1,038	935	855	849	842	824	814	807
Class I line-haul operating.....	127	126	110	108	108	103	103	102
Lessors to class I.....	179	155	132	129	128	125	124	121
Class II line-haul operating.....	171	155	303	303	304	297	292	290
Lessors to class II.....	6	8	12	12	8	8	8	10
Class III line-haul operating.....	166	155	-	-	-	-	-	-
Lessors to class III.....	9	8	-	-	-	-	-	-
Switching and terminal ¹	253	237	226	223	221	219	215	215
Proprietary ²	100	67	52	53	53	51	50	47
Circular.....	18	18	19	18	21	19	18	17
Unofficial.....	9	6	1	3	1	2	4	5

- Entry represents zero.

¹ Includes operating, lessor, proprietary, circular, and unofficial companies.² Excludes those in systems which file consolidated reports combining mileage, investment, and other items on a net system basis.Source: Interstate Commerce Commission; annual reports, *Statistics of Railways in the United States*, and, beginning 1955, *Transport Statistics in the United States*, Part I.

No. 815. RAILROADS (CLASS I)—REVENUES, EXPENSES, INCOME, AND CAPITAL EXPENDITURES: 1950 to 1964

[In millions of dollars. No class I railroads in Alaska and Hawaii. See text, p. 557, for explanation of class limits. See also *Historical Statistics, Colonial Times to 1957*, series Q 103-117]

ITEM	1950	1955	1959	1960	1961	1962	1963	1964 (prel.)
Operating revenues	9,473	10,107	9,825	9,517	9,187	9,440	9,560	9,857
Freight.....	7,817	8,539	8,312	8,028	7,737	7,991	8,155	8,455
Passenger.....	813	743	651	640	625	619	588	578
Mail.....	374	287	330	331	342	344	339	329
Express.....	81	118	116	100	83	82	80	80
Other.....	387	420	416	417	401	404	399	414
Operating expenses	7,059	7,641	7,705	7,556	7,271	7,417	7,452	7,738
Maintenance.....	2,995	3,172	3,034	2,952	2,802	2,898	2,914	2,990
Way and structures.....	1,287	1,387	1,236	1,192	1,118	1,154	1,183	1,226
Equipment.....	1,708	1,785	1,798	1,760	1,634	1,743	1,732	1,764
Traffic.....	192	236	259	268	248	252	252	255
Transportation, rail line.....	3,491	3,768	3,888	3,833	3,711	3,755	3,771	3,921
Miscellaneous operations.....	110	108	86	82	77	77	71	68
General.....	271	357	438	441	433	436	443	501
Net revenue from railway operations	2,414	2,466	2,120	1,961	1,916	2,023	2,108	2,119
Tax accruals.....	1,195	1,081	1,048	999	992	906	886	871
Operating income	1,219	1,385	1,073	962	924	1,117	1,221	1,248
Net railway operating income	1,040	1,129	748	585	538	727	806	818
Ratio of expenses to revenues (percent).....	74.5	75.6	78.4	79.5	79.1	78.6	78.0	78.5
Expenditures for capital improvements	1,065	908	818	919	646	833	1,045	1,417
Equipment.....	779	568	568	633	427	593	786	1,140
Roadway and structures.....	286	340	250	286	219	240	259	278

Source: Interstate Commerce Commission; *Annual Report*.

No. 816. RAILROADS (CLASS I)—FUEL AND POWER CONSUMED AND RAILS AND TIES LAID: 1950 to 1963

[No class I railroads in Alaska and Hawaii. Line-haul railroads only. See text, p. 557, for explanation of class limits. See *Historical Statistics, Colonial Times to 1957*, series Q 128-137, for related data]

ITEM	1950	1955	1960	1961	1962	1963
Fuel and power consumed:						
Coal.....1,000 short tons.....	55,452	11,427	39	9	8	7
Fuel oil.....mil. gal.....	2,284	376	89	94	101	90
Diesel oil.....mil. gal.....	1,827	3,393	3,472	3,382	3,463	3,545
Electricity.....mil. kwh.....	2,260	2,082	1,641	1,652	1,687	1,609
Rails and ties laid:						
Rails (replacement and betterment).....1,000 short tons.....	2,454	1,390	915	758	823	947
Ties (in previously constructed tracks):						
Crossties.....1,000.....	30,494	24,149	14,319	12,019	13,428	13,667
Switch and bridge ties.....1,000 board ft.....	98,400	79,098	49,902	50,187	48,717	46,921

Source: Interstate Commerce Commission; *Annual Report*.

No. 817. RAILROADS (CLASS I)—SELECTED FREIGHT STATISTICS: 1950 TO 1964
 [No class I railroads in Alaska and Hawaii. Excludes switching and terminal roads. Tons of 2,000 pounds. See text, p. 557, for explanation of class limits. See also *Historical Statistics, Colonial Times to 1957*, series Q 93]

ITEM	1950	1955	1960	1962	1963	1964
Average miles of road operated.....	225,339	222,295	219,665	217,554	216,639	215,678
Operating revenue..... mil. dol.	7,817	8,638	8,025	7,991	8,155	8,455
Per ton-mile..... cents.	1.33	1.37	1.40	1.35	1.31	1.28
Per ton per road..... dollars.	3.04	3.25	3.51	3.50	3.44	3.38
Revenue-tons:						
Originated..... millions..	1,354	1,393	1,241	1,234	1,285	(NA)
Carried..... millions..	2,570	2,625	2,287	2,283	2,371	2,499
Carried 1 mile..... millions..	588,678	623,615	572,321	592,544	621,659	659,327
Miles per revenue-ton per road (average haul).....	229.0	237.6	250.2	259.5	262.2	263.8
Freight train miles..... millions..	515	476	405	393	400	415
Freight train car-miles:						
Loaded, revenue and nonrevenue..... millions..	19,644	20,099	17,287	16,990	17,133	17,487
Empty..... millions..	10,140	11,054	10,872	10,753	10,992	11,393
Net ton-miles per train-mile.....	1,224	1,374	1,466	1,557	1,604	1,616
Net ton-miles per loaded car-mile.....	31.7	32.1	34.0	35.7	37.1	38.3
Train-miles per train-hour.....	16.8	18.6	19.5	20.0	20.1	20.2

NA Not available. ¹ Revenue and nonrevenue freight.

Source: Interstate Commerce Commission; annual report, *Transport Statistics in the United States*, Part 1, and unpublished data.

No. 818. RAILROADS (CLASS I)—FREIGHT ORIGINATED AND FREIGHT REVENUE, BY COMMODITY GROUPS: 1950 TO 1963

[No class I railroads in Alaska and Hawaii. Carload freight only, except as specified. See text, p. 557, for explanation of class limits. See also *Historical Statistics, Colonial Times to 1957*, series Q 73-83]

COMMODITY GROUP	1950	1955	1959	1960	1961	1962	1963
REVENUE FREIGHT ORIGINATED (million short tons)							
Total.....	1,354	1,396	1,232	1,241	1,194	1,234	1,285
Agricultural products.....	129	134	146	150	154	155	161
Livestock and livestock products.....	14	13	10	9	9	10	9
Mining products.....	747	762	633	649	616	635	662
Coal and coke.....	420	394	344	338	326	337	365
Other.....	327	368	289	311	289	298	298
Forest products.....	79	83	80	79	75	78	78
Manufactures and miscellaneous ¹	374	398	359	349	337	354	373
All less-than-carload freight.....	11	7	4	3	3	2	2
GROSS FREIGHT REVENUE (mil. dol.)							
Total.....	8,146	8,938	8,704	8,402	8,114	8,385	8,559
Agricultural products.....	1,055	1,133	1,226	1,192	1,172	1,164	1,193
Livestock and livestock products.....	276	294	243	229	217	210	205
Mining products.....	1,094	2,121	1,978	1,969	1,863	1,916	1,966
Coal and coke.....	1,301	1,281	1,172	1,140	1,104	1,132	1,175
Other.....	693	841	806	830	759	784	791
Forest products.....	581	687	708	651	628	647	661
Manufactures and miscellaneous ¹	3,888	4,421	4,365	4,207	4,109	4,348	4,460
All less-than-carload freight.....	353	281	184	153	125	100	75

¹ Includes forwarder traffic.

Source: Interstate Commerce Commission; annual report, *Transport Statistics in the United States*, Part 1.

No. 819. RAILROADS (CLASS I)—CARS OF REVENUE FREIGHT LOADED, BY PRINCIPAL COMMODITIES: 1940 TO 1964

[In thousands. Figures are 52-week totals. No class I railroads in Alaska and Hawaii. See text, p. 557, for explanation of class limits]

YEAR	Total	Grain and grain products	Livestock	Coal	Coke	Forest products	Ore	Miscellaneous	Mdse., less than carload	Cars loaded with highway trailers
1940.....	36,358	1,835	685	6,320	549	1,800	2,148	14,842	7,679	(NA)
1945.....	41,918	2,734	894	8,296	695	2,039	2,474	19,258	6,529	(NA)
1950.....	38,903	2,466	491	7,240	727	2,226	2,529	18,955	4,269	(NA)
1955.....	37,636	2,633	441	6,508	616	2,275	2,846	19,087	3,230	168
1960.....	30,441	2,786	259	5,318	403	1,950	2,209	15,707	1,809	554
1962.....	28,722	2,774	210	5,269	356	1,896	1,728	15,323	1,166	706
1963.....	28,871	2,804	164	5,533	386	1,872	1,765	15,478	868	797
1964.....	29,438	2,624	153	5,547	495	1,961	2,013	16,006	640	890

NA Not available.

Source: Association of American Railroads, Car Service Division, Washington, D.C.; annual report, *Cars of Revenue Freight Loaded*. Weekly reports are published currently.

No. 820. RAILROADS—EQUIPMENT IN SERVICE: 1950 TO 1963

[Beginning 1960, includes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1957*, series Q 53-65]

ITEM	1950	1955	1959	1960	1961	1962	1963
Locomotives.....	42,951	33,533	31,539	31,178	30,889	30,701	30,506
Steam.....	26,680	6,266	871	374	210	136	112
Electric.....	827	639	517	498	484	441	438
Diesel.....	15,396	26,563	30,097	30,240	30,123	30,057	29,898
Other.....	48	65	54	66	72	67	58
New units installed ¹	3,215	1,097	855	389	288	764	834
Freight cars ²	1,745,778	1,723,747	1,708,116	1,690,396	1,635,342	1,581,213	1,542,466
Box.....	718,150	723,962	714,789	700,331	672,524	647,602	625,400
Gondola and hopper.....	874,801	845,809	840,802	831,473	804,440	778,187	760,192
Other.....	152,827	153,976	152,525	158,592	158,378	155,424	156,864
Aggregate capacity ¹.....1,000 tons	90,465	91,229	92,264	91,948	89,292	87,228	85,943
Average capacity ¹.....tons	52.6	53.7	55.0	55.4	55.7	56.3	56.8
New units installed ¹	40,032	29,070	42,507	54,032	26,279	29,237	33,245
Passenger-train cars.....	37,359	32,118	27,419	25,746	24,433	23,430	22,616
Coaches.....	16,488	13,543	11,121	10,287	9,640	9,432	9,286
Average seating capacity ¹	75	75	76	76	76	77	78
Baggage, express, and other non-passenger.....	13,817	13,388	10,244	10,077	9,728	9,356	9,027
Other.....	7,054	5,187	6,054	5,382	4,865	4,642	4,303
New units installed ¹	1,078	412	66	251	214	304	156
Air-conditioned cars ³	16,747	14,784	12,993	11,787	11,259	10,423	9,950

¹ Class I railroads. ² Excludes cabooses cars. ³ Class I railroads and Pullman Company.

Source: Interstate Commerce Commission; annual report, *Transport Statistics in the United States*, Part 1.

No. 821. RAILROADS (CLASS I)—SELECTED PASSENGER STATISTICS: 1950 TO 1964

[No class I railroads in Alaska and Hawaii. See text, p. 557, for explanation of class limits. See also *Historical Statistics, Colonial Times to 1957*, series Q 87-89]

ITEM	1950	1955	1960	1963	1964 (prel.)
Average miles of road operated.....	150,349	119,545	93,816	84,928	81,795
Passenger revenue.....\$1,000	813,417	742,945	640,087	587,840	577,629
Revenue per passenger-mile:					
Including commutation passengers.....cents	2.56	2.60	3.01	3.18	3.16
Excluding commutation passengers.....cents	2.46	2.70	3.03	3.18	3.16
Revenue passengers carried.....1,000	486,194	431,999	325,872	309,693	313,016
Revenue passenger-miles.....millions	31,760	28,526	21,258	18,497	18,248
Revenue passenger-miles per train-mile.....	88.5	95.2	100.9	97.3	99.4
Revenue passenger-miles per car-mile.....	17.0	17.8	19.3	19.6	20.3
Average journey per passenger per road.....miles	65.3	66.1	65.3	59.7	58.3
Passenger-train miles.....1,000	357,618	298,602	210,635	190,025	183,557
Passenger-carrying car-miles.....1,000	1,854,737	1,570,916	1,101,021	948,448	897,696
Train-miles per train-hour.....	37.4	39.8	40.7	40.9	41.4

Source: Interstate Commerce Commission; *Annual Report*, and *Transport Statistics in the United States*, Part 1, and unpublished data.

No. 822. RAILROADS—EMPLOYEES, HOURS, AND COMPENSATION: 1950 TO 1964

[Beginning 1960, Alaska and Hawaii included in "All operating carriers." Excludes switching and terminal roads. See also *Historical Statistics, Colonial Times to 1957*, series Q 141-142]

YEAR	ALL OPERATING CARRIERS		CLASS I CARRIERS ¹					
	Average number of employees	Total yearly compensation (\$1,000)	Average number of employees	Total hours (1,000)	Total yearly compensation (\$1,000)	Average hours per employee	Average compensation	
							Per hour ²	Per year
1950.....	1,236,879	4,644,890	1,220,401	2,876,591	4,594,423	2,357	\$1.60	\$3,765
1955.....	1,071,387	5,045,278	1,057,886	2,502,608	4,992,235	2,366	2.00	4,719
1959.....	827,716	5,048,524	815,474	1,924,500	4,986,253	2,360	2.59	6,115
1960.....	793,071	4,956,902	780,494	1,840,590	4,898,558	2,358	2.66	6,270
1961.....	727,148	4,683,563	717,543	1,698,704	4,623,982	2,367	2.72	6,444
1962.....	711,000	4,721,895	700,146	1,672,389	4,662,065	2,389	2.79	6,559
1963.....	690,585	4,690,053	680,039	1,640,829	4,629,566	2,413	2.82	6,808
1964 (prel.).....	(NA)	(NA)	665,034	1,619,804	4,620,047	2,436	2.85	6,947

NA. Not available. ¹ See text, p. 557, for explanation of class limits.

² Calculated for all classes of employees, including those not paid on an hourly basis.

Source: Interstate Commerce Commission; Statement No. M-300.

No. 823. RAILROAD ACCIDENTS—PERSONS KILLED AND INJURED, BY STATUS: 1950 to 1964

[As of December 31. Beginning 1960, includes Alaska and Hawaii. Covers all reportable accidents. Statistics are not strictly comparable. Accidents causing damage to railroad property, with or without a casualty, were classified as train accidents in 1950 if they were \$275 or over, and beginning 1955, \$360 or over. See also *Historical Statistics, Colonial Times to 1887*, series Q 143-152]

YEAR	TOTAL		PASSENGERS ¹		EMPLOYEES		TRESPASSERS		OTHER PERSONS ²	
	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured
1950.....	3,486	33,267	180	3,419	392	22,586	1,215	942	1,699	6,320
1955.....	2,761	27,840	24	2,263	282	19,011	867	680	1,588	5,896
1959.....	2,094	19,909	10	1,352	178	14,203	641	619	1,265	3,735
1960.....	2,248	19,577	32	1,463	198	13,710	617	564	1,401	3,840
1961.....	2,127	27,118	17	1,887	145	20,194	624	678	1,841	4,359
1962.....	2,106	26,880	27	2,109	100	19,733	617	678	1,272	4,360
1963.....	3,141	27,456	13	2,135	173	19,992	571	657	1,384	4,672
1964.....	2,423	27,614	8	1,489	188	20,499	619	711	1,608	4,915

¹ Data cover passengers on trains and travelers not on trains.

² Includes casualties sustained in nontrain accidents. Nontrain accidents are those not caused directly by operation or movement of trains, locomotives, or cars, but attributable to shop machinery or use of tools and apparatus that result in reportable casualties.

Source: Interstate Commerce Commission; annual report, *Accident Bulletin*.

No. 824. HIGHWAY GRADE CROSSINGS—NUMBER AND ACCIDENTS: 1950 to 1964

[Beginning 1960, includes Alaska and Hawaii. Covers all railroads, except as noted. Excludes casualties due to suicide, mental derangement, and attempt to escape custody. See also headnote, table 823. See also *Historical Statistics, Colonial Times to 1887*, series Q 125-127]

YEAR	HIGHWAY GRADE CROSSINGS ¹			ACCIDENTS				
	Total	Specially protected ²	Eliminated by separation of grades	Number	All persons		Involving motor vehicles	
					Number killed	Number injured	Persons killed	Persons injured
1950.....	227,364	35,968	61	4,000	1,576	4,368	1,393	4,206
1955.....	226,318	39,060	84	3,846	1,446	4,014	1,313	3,886
1959.....	225,394	41,720	130	3,075	1,203	3,247	1,055	3,123
1960.....	224,513	42,267	102	3,195	1,364	3,424	1,254	3,277
1961.....	223,785	42,800	100	3,204	1,261	3,514	1,168	3,288
1962.....	221,653	43,127	132	3,149	1,243	3,218	1,122	3,075
1963.....	220,165	43,484	72	3,400	1,302	3,560	1,217	3,435
1964.....	(NA)	(NA)	(NA)	3,781	1,543	3,820	1,432	3,676

NA. Not available. ¹ Class I railroads only.

² Includes crossings with operated gates or watchmen, or both, during at least part of day; and those with audible or visible signals, or both. Excludes those with fixed signs only.

Source: Interstate Commerce Commission; annual reports, *Accident Bulletin*, *Statistics of Railways in the United States*, and, beginning 1955, *Transport Statistics in the United States*, Part 1.

No. 825. PULLMAN COMPANY OPERATIONS: 1930 to 1964

[Excludes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1887*, series Q 138-140]

YEAR	Average miles of road over which operations conducted	Revenue-passenger miles ¹ (millions)	Employees, annual average	YEAR	Average miles of road over which operations conducted	Revenue-passenger miles ¹ (millions)	Employees, annual average
1930.....	129,578	12,516	26,165	1958.....	79,555	4,300	10,234
1935.....	112,117	7,146	20,436	1959.....	71,448	3,462	8,020
1940.....	109,596	8,214	20,877	1960.....	67,467	3,358	7,320
1945.....	95,765	27,278	41,601	1961.....	63,035	3,046	6,688
1950.....	102,722	10,558	22,820	1962.....	61,278	2,905	6,392
1955.....	89,124	6,882	18,061	1963.....	59,706	2,516	5,902
1956.....	87,472	6,630	16,793	1964.....	52,994	2,218	5,544
1957.....	85,068	5,388	14,890				

¹ Beginning 1940, includes operations on Canadian and Mexican railroads; excludes chartered car operations.

Source: Interstate Commerce Commission; annual reports, *Statistics of Railways in the United States*, and, beginning 1955, *Transport Statistics in the United States*, Part 2.

No. 826. PETROLEUM PIPELINE COMPANIES—SUMMARY OF SELECTED FINANCIAL DATA: 1930 TO 1963

[In thousands of dollars, except miles of line operated. Beginning 1960, includes Alaska and Hawaii. See *Historical Statistics, Colonial Times to 1957*, series Q 342, for miles of line operated]

YEAR	Miles of line operated	Investment in carrier property	Other investments	Total current assets	Pipeline operating revenues	Pipeline operating expenses	Pipeline operating income	Net income
1930.....	88,727	772,711	96,184	133,428	237,910	99,363	121,816	123,741
1935.....	92,037	793,009	119,071	46,949	197,368	89,364	79,586	78,249
1940.....	100,166	841,977	64,095	47,163	225,760	101,919	82,558	79,857
1945.....	113,351	1,042,523	86,713	115,370	304,268	191,668	67,127	65,941
1946.....	116,544	1,106,454	69,991	103,819	293,723	183,869	56,485	56,094
1947.....	119,298	1,225,168	56,455	126,621	325,224	214,682	54,415	53,145
1948.....	124,092	1,381,402	52,168	168,020	377,034	252,971	58,806	56,679
1949.....	124,984	1,497,579	73,285	175,458	376,452	249,368	63,282	57,743
1950.....	128,589	1,655,973	100,798	192,291	441,627	254,701	89,047	81,303
1951.....	131,457	1,821,880	70,011	232,851	523,973	290,144	91,265	82,006
1952.....	132,715	2,004,405	107,412	322,677	562,268	310,311	111,053	96,650
1953.....	133,900	2,311,885	95,970	301,185	601,186	324,935	128,943	109,046
1954.....	138,992	2,501,330	67,451	315,731	617,463	331,834	149,845	124,409
1955.....	140,374	2,585,665	80,679	352,762	677,605	346,985	176,287	153,334
1956.....	142,686	2,716,234	82,453	367,633	737,386	370,787	188,272	178,457
1957.....	145,236	2,843,034	75,912	364,258	729,952	386,661	182,392	159,197
1958.....	144,354	2,948,598	194,855	347,369	720,670	389,678	190,748	161,838
1959.....	149,159	3,196,909	128,608	383,973	765,232	406,140	211,276	182,815
1960.....	151,968	3,299,501	113,504	393,028	770,417	417,640	198,911	169,398
1961.....	153,737	3,406,830	92,398	432,146	786,718	419,854	214,616	180,698
1962.....	155,053	3,518,420	81,817	432,084	810,605	426,363	227,030	203,800
1963.....	156,812	3,914,665	99,230	534,686	840,260	437,701	232,220	200,770

Source: Interstate Commerce Commission; annual reports, *Statistics of Oil Pipe-Line Companies*, and, beginning 1955, *Transport Statistics in the United States*, Part 6.

No. 827. PETROLEUM PIPELINES—OIL TRANSPORTED: 1950 TO 1963

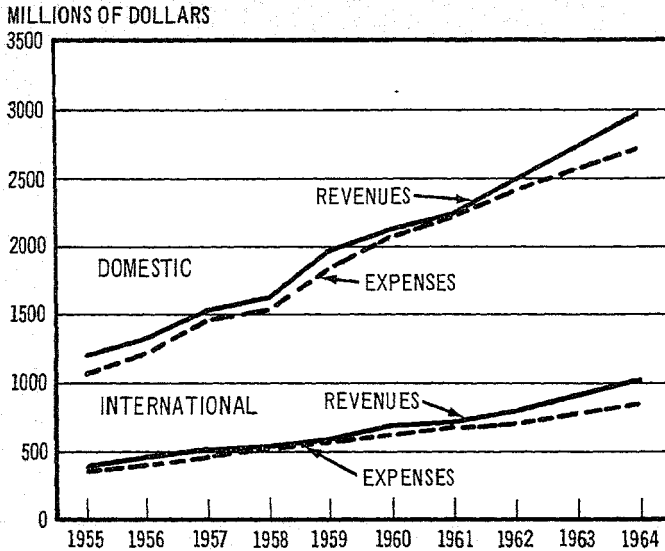
[Beginning 1960, includes Alaska and Hawaii. See *Historical Statistics, Colonial Times to 1957*, series Q 343-344, for oil originated]

ITEM	1950	1955	1959	1960	1961	1962	1963
Number of companies.....	76	84	85	87	89	92	94
Mileage operated.....	128,589	140,374	149,159	151,968	153,737	155,053	156,812
Gathering lines.....	47,593	50,645	49,687	49,401	49,656	48,063	47,226
Trunk lines.....	80,996	89,729	99,592	102,567	104,081	106,990	109,586
Oil transported (million bbls.):							
Total received into system.....	2,766	4,058	4,665	4,783	4,941	5,123	5,334
From connecting carriers.....	944	1,434	1,634	1,636	1,639	1,666	1,685
Crude oil.....	879	1,299	1,423	1,402	1,402	1,411	1,433
Refined oils.....	65	134	211	234	237	254	262
Originated.....	1,822	2,624	3,031	3,147	3,302	3,457	3,649
Crude oil.....	1,525	2,038	2,182	2,239	2,336	2,379	2,467
Refined oils.....	297	586	849	909	966	1,078	1,182
Total delivered out of system.....	2,740	4,039	4,659	4,783	4,923	5,109	5,322
To connecting carriers.....	937	1,444	1,624	1,639	1,646	1,624	1,648
Crude oil.....	874	1,329	1,403	1,400	1,392	1,353	1,367
Refined oils.....	63	115	221	240	254	271	281
Terminated.....	1,803	2,605	3,035	3,144	3,277	3,485	3,673
Crude oil.....	1,510	1,992	2,201	2,253	2,331	2,428	2,535
Refined oils.....	293	603	834	891	940	1,057	1,138
Trunk-line movement (million bbls.):							
Crude oil.....	1,977	2,781	3,038	3,091	3,108	3,213	3,355
Refined oils.....	360	717	1,055	1,124	1,191	1,322	1,416
Trunk-line barrel-miles (billions):							
Crude oil.....	577	839	980	976	996	998	1,054
Refined oils.....	107	205	284	304	317	347	369

Source: Interstate Commerce Commission; annual reports, *Statistics of Oil Pipe-Line Companies*, and, beginning 1955, *Transport Statistics in the United States*, Part 6.

FIG. XXXVII. OPERATING REVENUES AND EXPENSES OF SCHEDULED AIR CARRIERS: 1955 TO 1964

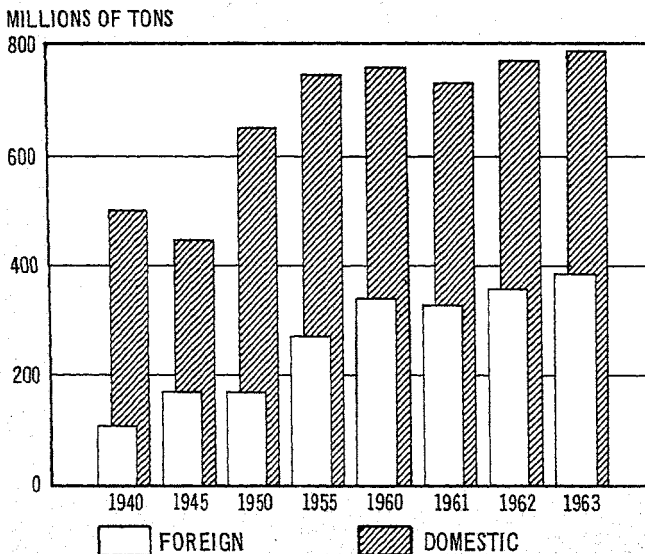
[See table 833]



Source: Chart prepared by Dept. of Commerce, Bureau of the Census. Data from Federal Aviation Agency.

FIG. XXXVIII. WATERBORNE COMMERCE OF THE UNITED STATES: 1940 TO 1963

[See table 843]



Source: Chart prepared by Dept. of Commerce, Bureau of the Census. Data from Dept. of the Army, Corps of Engineers.

Section 22

Transportation—Air and Water

This section presents statistics on civil air transportation, both passenger and cargo, and on water transportation, including inland waterways, oceanborne commerce, the merchant marine, cargo and vessel tonnages, and shipbuilding. The principal sources of these data are the annual *FAA Statistical Handbook of Aviation*, issued by the Federal Aviation Agency; the annual *Waterborne Commerce of the United States* and the *Annual Report of the Chief of Engineers*, Part 2, issued by the Corps of Engineers of the Department of the Army; the monthly and annual *U.S. Waterborne Foreign Trade*, and *U.S. Airborne Foreign Trade*, issued by the Bureau of the Census; and the annual *Merchant Marine Statistics*, issued by the Bureau of Customs.

Data on air transportation are also presented in *Air Transport Facts and Figures*, published annually by the Air Transport Association of America, Washington, D.C. Additional sources of data on water transportation include *A Statistical Analysis of the World's Merchant Fleets*, issued periodically by the Maritime Administration of the Department of Commerce; *The Bulletin*, issued monthly by the American Bureau of Shipping, New York; and the *Annual Summary of Merchant Ships Launched in the World* and the *Register Book* published by Lloyd's Register of Shipping, London, England. A basic source for historical data is *Foreign Commerce and Navigation of the United States*, issued annually through 1946 by the Bureau of the Census.

Data relating to merchandise exports and imports, their classification, dollar values, and countries of origin and destination are in section 31, Foreign Commerce and Aid.

Civil aviation.—Federal promotion and regulation of civil aviation are carried out by two bodies—the Federal Aviation Agency and the Civil Aeronautics Board. The Board issues certificates permitting persons to engage in air transportation as a business, fixes air mail rates which they may charge, and may establish maximum and minimum rates for transportation of passengers and goods. It also has the duty of investigating accidents in air transportation.

The principal activities of the Federal Aviation Agency are: Controlling the use of navigable airspace; prescribing regulations dealing with the competency of airmen, airworthiness of aircraft, and air traffic control; operation of air route traffic control centers, airport traffic control towers, and flight service stations; the design, construction, maintenance, and inspection of navigation, traffic control, and communications equipment for the airways; and promotion of air safety.

These agencies publish annual operational data on the use of airway facilities; data related to the location of airmen, aircraft, and airports; the activity volume in the field of non-aircarrier (general aviation) flying; and aircraft production and registration.

Air carriers and service.—The term *certificated route air carrier* refers to air carriers holding certificates of public convenience and necessity, issued by the Civil Aeronautics Board, authorizing the performance of scheduled air transportation over specified routes and a limited amount of nonscheduled operations. This general carrier grouping includes the all-purpose carrier (i.e., the so-called passenger/cargo carriers) and the all-cargo carriers, and comprises all of the airlines certificated by the board, except the supplemental air carriers. Certificated route air carriers are often referred to as "scheduled airlines," although they also perform nonscheduled service. *Nonscheduled service* comprises revenue flights that are not operated in regular scheduled service, such as charter flights, and all nonrevenue flights incident to such flights. *Scheduled service* is transport service operated over an air carrier's certificated routes, based on published flight schedules, including extra sections and related nonrevenue flights.

Vessel shipments, entrances, and clearances.—Shipments by dry cargo vessels comprise shipments on all types of watercraft except tanker vessels; shipments by tanker vessels comprise all types of cargo, liquid and dry, carried by tanker vessels.

A vessel is reported as entered at the first port which it enters in the United States, regardless of whether any cargo is unladen at that port. A vessel is reported as cleared from the last port where outward cargo is completed or where the vessel cleared in ballast. Army and Navy vessels entering or clearing without commercial cargo and vessels touching at a United States port in distress, or for other temporary causes without discharging cargo, are not included in the figures.

Units of measurement.—Cargo tonnage and shipping weight both represent the gross weight of the cargo including the weight of containers, wrappings, crates, etc. Other tonnage figures generally refer to stowing capacity of vessels, 100 cubic feet being called 1 ton. Gross tonnage comprises the space within the frames and the ceiling of the hull, together with those closed-in spaces above deck available for cargo, stores, passengers, or crew, with certain minor exceptions. Net or registered tonnage is the gross tonnage less the spaces occupied by the propelling machinery, fuel, crew quarters, master's cabin, and navigation spaces. It represents substantially space available for cargo and passengers. The net tonnage capacity of a ship may bear little relation to weight of cargo. Dead-weight tonnage is the weight in long tons required to depress a vessel from light water line (that is, with only the machinery and equipment on board) to load line. It is therefore the weight of the cargo, fuel, etc., which a vessel is designed to carry with safety.

Alaska and Hawaii.—Statements specifying inclusion or exclusion of figures for Alaska and Hawaii appear in the headnotes to each table unless the inclusion or exclusion is self-evident.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1957*. See preface.

NO. 828. DOMESTIC AIR CARGO—REVENUE TON-MILES FLOWN, BY TYPE OF CARRIER: 1950 TO 1964

[In thousands of ton-miles. Includes Alaska and Hawaii. For scheduled combination and all-cargo carriers, comprises express and freight ton-miles; for supplemental carriers, freight only]

YEAR	Total, all carriers	SCHEDULED PASSENGER/CARGO CARRIERS			SCHEDULED ALL-CARGO CARRIERS ¹			Supple- mental carriers ²
		Total	Sched- uled	Non- sched- uled ¹	Total	Sched- uled	Non- sched- uled ¹	
1950.....	239,288	154,760	152,223	2,537	71,415	58,420	12,995	13,113
1951.....	261,188	146,138	144,790	1,348	97,364	72,327	25,037	17,686
1952.....	259,302	162,600	162,047	553	86,447	81,829	4,618	10,255
1953.....	281,436	180,006	179,063	943	83,341	74,579	8,762	18,089
1954.....	277,868	191,304	189,765	1,539	62,365	58,091	4,264	23,709
1955.....	379,210	236,354	229,968	6,388	102,299	88,802	13,497	40,557
1956.....	456,549	265,824	247,255	18,069	132,419	103,911	28,508	58,806
1957.....	554,255	273,770	268,791	4,979	233,310	127,286	106,024	47,175
1958.....	566,810	296,916	294,018	2,898	208,584	92,716	115,868	61,310
1959.....	651,477	347,920	344,725	3,192	240,189	105,487	134,702	63,368
1960.....	723,670	399,438	386,933	2,505	222,262	89,566	132,696	111,970
1961.....	829,412	455,932	454,142	1,809	259,518	79,040	180,478	113,942
1962.....	1,103,356	557,573	554,599	2,974	430,612	82,233	348,379	115,171
1963.....	1,095,179	609,093	608,728	5,367	315,425	110,844	204,581	170,661
1964.....	1,287,863	757,874	743,963	13,911	344,848	149,812	195,036	185,141

¹ Includes some military ton-miles and may include a small amount of international traffic.

² For periods prior to issuance of certificates, includes operations for only those noncertificated carriers that were ultimately granted certificates.

³ Civil and military.

Source: Federal Aviation Agency; FAA Statistical Handbook of Aviation. Data from Civil Aeronautics Board.

No. 829. SUMMARY OF CIVIL FLYING: 1940 TO 1964

[As of Dec. 31 or for years ending Dec. 31. Includes Alaska and Hawaii, except as noted. General aviation flying excludes civil flying performed by public carriers—scheduled, supplemental, contract, or intrastate. See also *Historical Statistics, Colonial Times to 1967*, series Q 376-383 and Q 394-397]

ITEM	1940	1950	1955	1960	1962	1963	1964
Airports in operation ¹	2,331	6,403	6,839	6,881	8,084	8,814	9,940
General ²	(NA)	(NA)	2,713	3,026	(NA)	(NA)	(NA)
Limited and restricted ³	(NA)	(NA)	4,126	3,855	(NA)	(NA)	(NA)
Lighted airports.....	776	1,670	1,247	2,133	2,481	2,678	2,773
Miles of Federal airways ⁴	32,100	70,253	148,079	178,024	136,794	137,191	139,989
Equipped with low/medium frequency radio aids.....	32,100	70,253	67,770	36,879	10,559	9,038	8,242
Equipped with very high frequency radio aids.....	-	-	81,209	142,045	126,235	128,153	131,747
Total civil aircraft ⁵	17,928	92,809	85,320	111,580	124,273	129,975	137,189
Active aircraft.....	(NA)	60,921	60,432	78,760	86,287	87,267	90,935
Aids to air navigation (Federal airways): ⁶							
Radio range stations.....	292	749	768	1,030	960	927	930
Low/medium frequency.....	290	378	344	305	183	104	75
Very high frequency.....	2	371	424	725	777	823	855
Nondirectional radio beacons.....	48	141	175	190	222	278	287
Airport towers.....	-	172	100	153	270	278	278
Airways centers.....	11	81	31	35	35	32	29
Combined station/towers.....	-	-	75	75	68	68	66
Flight service stations.....	365	461	364	335	336	336	333
Instrument landing systems.....	1	96	157	191	228	237	247
Certificated airplane pilots.....	69,829	(NA)	643,201	763,232	830,220	849,742	905,269
Airline transport.....	1,431	(NA)	13,700	20,985	23,220	23,887	26,545
Commercial.....	18,791	(NA)	211,142	262,437	275,495	281,225	306,102
Private.....	49,607	(NA)	418,359	499,810	531,505	545,630	572,612
Other certificated airman:							
Glider pilots.....	138	(NA)	3,659	4,974	4,660	5,120	6,241
Mechanics.....	11,177	(NA)	61,001	115,688	122,160	124,945	130,131
Parachute riggers.....	444	(NA)	2,869	2,936	3,400	3,669	4,226
Ground instructors.....	1,948	(NA)	27,080	29,421	29,964	30,295	30,801
Hours flown (general aviation) ⁷	3,200	9,650	9,500	13,121	14,500	15,105	15,738
Business ⁸	314	2,750	4,300	5,699	5,431	5,740	5,823
Commercial ⁹	387	1,500	1,950	2,365	3,051	3,172	3,305
Instructional.....	1,529	3,000	1,275	1,828	2,385	2,417	2,675
Personal.....	970	2,300	1,975	3,172	3,489	3,626	3,777
Other.....	-	100	-	57	144	151	168
Miles flown (general aviation) ⁸ millions.....	264	1,062	1,216	1,769	1,965	2,049	2,181
Business ⁸ millions.....	26	340	628	881	935	983	1,047
Commercial ⁹ millions.....	32	181	246	299	366	399	393
Instructional..... millions.....	126	287	121	194	256	266	283
Personal..... millions.....	80	244	222	387	388	410	436
Other..... millions.....	-	11	-	8	20	21	22
Fuel consumed (general aviation): ¹⁰							
Gasoline..... 1,000 gal.....	22,400	131,200	190,000	242,417	240,784	249,878	(NA)
Jet fuel..... 1,000 gal.....	-	-	-	-	19,723	31,627	(NA)
Oil..... 1,000 gal.....	660	2,916	3,450	3,910	3,762	3,867	(NA)
Aircraft accidents (general aviation):							
Aircraft destroyed.....	3,471	4,505	3,343	4,763	4,840	4,690	5,070
Substantial damage.....	433	1,527	798	(NA)	(NA)	(NA)	(NA)
Minor and no damage.....	2,505	2,947	2,509	(NA)	(NA)	(NA)	(NA)
Minor and no damage.....	533	31	36	(NA)	(NA)	(NA)	(NA)
Degree of injury to persons in aircraft accidents (general aviation):							
Fatal.....	359	871	819	787	857	893	1,056
Severe.....	327	546	347	(NA)	(NA)	(NA)	(NA)
Minor and no injury.....	4,744	6,263	4,974	(NA)	(NA)	(NA)	(NA)

- Entry represents zero. NA Not available.

¹ Existing airports and airfields recorded with FAA. "Limited" includes seaplane bases and heliports.

² Includes military airports with joint civil and military use. Airport type definitions: General use—airports serving as regular, alternate, or provisional stops for scheduled and large irregular carriers; non-air-carrier airports offering a minimum of services such as fuel and regular attendant during normal working hours; and airports operating seasonally which qualify under above definition. Limited use—airports available to public but not equipped to offer minimum services. Restricted use—use by general public prohibited except in case of forced landing or by previous arrangement.

³ United States and outlying areas. ⁴ Includes gliders.

⁵ Prior to 1960, excludes Alaska and Hawaii.

⁶ Corporation and individual business transportation, not for hire.

⁷ Passenger and cargo transportation for hire, aerial application (crop dusting, spraying, seeding, etc.), patrol, survey, and other miscellaneous work use.

Source: Federal Aviation Agency; *FAA Statistical Handbook of Aviation*. Includes data from Civil Aeronautics Board.

No. 830. CIVIL AIRCRAFT, AIRPORTS, AND FEDERAL-AID AIRPORT PROGRAM— STATES AND OTHER AREAS: 1964

[As of December 31, except as noted]

STATE OR OTHER AREA	CIVIL AIRCRAFT ¹		AIRPORTS BY OWNERSHIP ²			FEDERAL-AID AIRPORT PROGRAM ³ (\$1,000)		
	Total	Active	Total	Public	Private	Total	Federal funds	Sponsor funds
Total.....	137,189	90,935	9,490	3,644	5,846	1,753,794	865,966	887,828
Alabama.....	1,537	1,072	116	73	43	29,667	14,936	14,731
Alaska.....	2,725	1,573	549	400	149	36,236	24,145	12,091
Arizona.....	2,439	1,493	185	78	107	25,169	13,704	11,465
Arkansas.....	1,953	1,200	119	56	63	13,925	6,913	7,012
California.....	18,909	12,363	627	253	374	167,214	81,409	85,805
Colorado.....	2,043	1,363	163	61	102	29,400	15,186	14,214
Connecticut.....	1,010	659	88	14	74	15,689	7,837	7,852
Delaware.....	418	309	19	3	16	1,662	864	798
District of Columbia.....	601	386	5	5	—	—	—	—
Florida.....	5,685	3,406	252	116	136	69,837	33,638	36,199
Georgia.....	2,213	1,480	161	77	84	56,349	28,496	27,853
Hawaii.....	283	160	46	17	29	31,286	10,711	20,575
Idaho.....	1,290	892	178	118	60	6,472	3,610	2,862
Illinois.....	6,195	4,230	319	68	251	102,924	49,133	53,791
Indiana.....	3,586	2,494	159	49	110	32,809	16,164	16,645
Iowa.....	2,427	1,809	212	72	140	24,869	12,333	12,536
Kansas.....	3,583	2,629	260	107	153	13,000	6,349	6,651
Kentucky.....	1,004	697	59	42	17	27,879	13,989	13,890
Louisiana.....	2,205	1,441	193	57	136	40,798	19,645	21,153
Maine.....	593	392	139	46	93	5,403	2,673	2,730
Maryland.....	1,339	866	76	17	59	16,075	8,047	8,028
Massachusetts.....	1,832	1,170	124	37	87	40,233	19,714	20,519
Michigan.....	5,140	3,519	235	114	121	67,120	31,810	35,310
Minnesota.....	3,440	2,485	240	111	129	41,753	20,516	21,237
Mississippi.....	1,605	988	147	63	84	17,506	8,758	8,748
Missouri.....	3,230	2,274	231	70	161	43,652	21,435	22,217
Montana.....	1,666	1,202	186	111	75	11,768	6,237	5,531
Nebraska.....	1,921	1,290	195	85	110	19,048	9,473	9,575
Nevada.....	999	649	76	36	40	15,185	9,149	6,036
New Hampshire.....	377	211	37	13	24	4,181	2,086	2,095
New Jersey.....	2,837	1,819	130	19	111	27,347	13,412	13,935
New Mexico.....	1,567	1,004	114	52	62	9,979	5,576	4,403
New York.....	6,225	3,971	321	59	262	150,139	68,960	81,179
North Carolina.....	2,257	1,459	167	46	121	23,597	11,800	11,797
North Dakota.....	1,123	740	170	66	104	7,855	3,743	4,112
Ohio.....	5,732	3,811	397	54	343	62,833	30,598	32,235
Oklahoma.....	2,923	2,014	195	92	103	42,630	21,172	21,458
Oregon.....	2,642	1,803	187	78	109	18,284	9,437	8,847
Pennsylvania.....	4,298	2,811	481	64	417	93,247	44,931	48,316
Rhode Island.....	206	126	14	7	7	7,293	3,578	3,715
South Carolina.....	855	578	99	43	56	13,399	6,746	6,653
South Dakota.....	1,190	729	98	58	40	5,302	2,800	2,502
Tennessee.....	1,716	1,177	110	53	57	43,182	21,701	21,481
Texas.....	11,093	7,381	812	212	600	96,350	47,743	48,607
Utah.....	866	598	69	50	19	15,543	9,545	5,998
Vermont.....	201	145	38	12	26	2,724	1,357	1,367
Virginia.....	1,662	1,103	110	39	71	27,308	13,514	13,794
Washington.....	3,210	2,008	215	110	105	27,379	13,530	13,849
West Virginia.....	676	471	53	15	38	15,624	7,673	7,951
Wisconsin.....	2,485	1,706	202	84	118	31,764	15,628	16,136
Wyoming.....	751	544	85	42	43	5,058	2,873	2,185
Other areas ⁴	426	265	27	20	7	19,848	10,689	9,159

- Entry represents zero.

¹ Includes gliders.

² Includes military airports with joint civil and military use.

³ Cumulative since enactment of Federal Airport Act, May 16, 1946, through Dec. 31, 1964.

⁴ Comprises Puerto Rico, American Samoa, Canton, Guam, Virgin Islands, and Wake.

Source: Federal Aviation Agency; *FAA Statistical Handbook of Aviation*.

No. 831. SCHEDULED PASSENGER/CARGO AIR CARRIERS—SUMMARY OF OPERATIONS: 1940 TO 1964

[As of Dec. 31 or for years ending Dec. 31, except as noted. Hawaii included with domestic carriers and outlying areas with international, all years. Intra-Alaska included with domestic carriers and Mainland-Alaska with international, as follows: Number of operators and traffic data, beginning 1950; fuel and financial data, beginning 1955; and personnel data, beginning 1960. See also *Historical Statistics, Colonial Times to 1957*, series Q 352 and Q 354-362]

ITEM	1940	1950	1955	1960	1962	1963	1964
Number of operators: ¹							
Domestic.....	19	48	40	39	37	37	36
International.....	3	6	7	10	8	8	8
Total personnel employed.....	22,051	82,786	122,203	164,644	169,073	175,439	187,988
Domestic.....	15,984	61,903	95,548	134,546	138,673	143,112	153,243
International.....	6,067	20,883	26,655	30,098	30,400	32,327	34,695
Route miles in operation ²	95,079	183,841	196,274	249,717	248,865	247,944	247,673
Domestic ³	42,757	77,440	78,992	101,414	105,104	105,269	104,793
International ³	52,322	106,401	117,282	148,303	143,761	142,675	142,880
Aircraft in operation ⁴	437	1,220	1,409	1,822	1,733	1,747	1,786
Fixed wing.....	437	1,209	1,390	1,797	1,713	1,727	1,766
Four-engine.....			879	1,141	1,115	1,084	1,065
Turbojet.....			(NA)	202	376	405	447
Turboprop.....			8	181	184	177	176
Piston.....			671	758	555	502	442
Three-engine turbojet.....			(NA)	(NA)	(NA)	(NA)	88
Twin-engine.....	(NA)	(NA)	709	651	596	590	573
Turbojet.....			(NA)	(NA)	20	20	20
Turboprop.....			(NA)	46	46	50	58
Piston.....			709	605	530	520	495
Single-engine.....			2	5	2	53	40
Turboprop.....			(NA)	(NA)	(NA)	2	4
Piston.....			2	5	2	51	86
Helicopter.....	-	11	19	25	20	20	20
Average available seats: ⁵							
Domestic.....	16.5	37.5	51.2	65.5	79.4	83.4	86.1
International.....	18.3	41.0	56.4	89.9	118.7	124.8	127.2
Average speed (miles per hour):							
Domestic.....	(NA)	180	208	235	274	287	297
International.....	(NA)	218	244	307	394	423	441
Fuel consumed:							
Gasoline.....1,000 gal.....	74,535	572,246	1,170,240	1,127,006	787,101	615,465	552,926
Domestic.....1,000 gal.....	65,875	418,442	911,748	922,480	695,717	554,190	508,915
International.....1,000 gal.....	8,860	153,804	258,492	204,526	91,384	61,275	46,010
Jet fuel, domestic.....1,000 gal.....	-	-	1,827	988,003	1,932,309	2,342,088	2,722,515
International.....1,000 gal.....	-	-	-	342,513	722,101	896,203	1,043,699
Oil.....1,000 gal.....	1,288	6,675	14,161	15,545	9,947	9,271	8,511
Domestic.....1,000 gal.....	1,104	5,007	11,418	12,688	8,649	8,363	7,810
International.....1,000 gal.....	184	1,668	2,743	2,857	1,298	888	701
Revenue-miles flown (all scheduled services).....1,000.....	119,753	458,087	762,777	983,390	999,194	1,080,933	1,171,950
Domestic.....1,000.....	110,101	364,256	627,336	820,756	827,894	888,793	957,575
International.....1,000.....	9,652	93,831	135,441	162,634	171,500	192,140	214,375
Revenue passengers carried.....1,000.....	2,965	19,019	41,709	62,256	67,816	77,403	88,520
Domestic.....1,000.....	2,523	17,345	38,221	56,352	60,787	69,366	79,139
International.....1,000.....	163	1,675	3,488	5,904	7,079	8,037	9,381
Revenue passenger-miles flown:							
Domestic.....millions.....	1,062	8,029	19,852	30,557	33,623	38,457	44,141
International.....millions.....	100	2,214	4,499	8,306	11,905	18,132	24,352
Average passenger-mile rate:							
Domestic.....	\$0.0507	\$0.0555	\$0.0536	\$0.0609	\$0.0644	\$0.0617	(NA)
International.....	.0883	.0728	.0666	.0635	.0587	.0582	(NA)
Express and freight, ton-miles flown.....1,000.....	(NA)	212,811	326,344	578,518	819,328	900,130	1,138,644
Domestic ⁷.....1,000.....	3,476	152,223	229,966	386,933	554,599	603,726	743,933
International.....1,000.....	(NA)	60,588	96,378	191,585	264,729	296,404	394,681
Mail, ton-miles flown:							
Domestic.....1,000.....	10,118	47,740	88,751	135,523	166,801	174,439	189,782
International.....1,000.....	(NA)	26,228	53,390	103,335	172,017	181,257	180,991

- Entry represents zero. NA Not available. ¹ Excludes all-cargo operators.

² Not compiled for intra-Alaska.

³ 1940, domestic is average for December, international as of Dec. 31; 1950-1964, based on fourth quarter.

⁴ Represents aircraft of the certificated route air carriers; excludes those used for crew training and general utility purposes, and those held for disposal. Beginning 1955, excludes aircraft operated by the scheduled all-cargo carriers.

⁵ Obtained by dividing passenger seat-miles by revenue-miles flown in passenger service.

⁶ Data for domestic passengers include duplication.

⁷ Excludes freight flown by certificated all-cargo operators and irregular carriers.

Source: Federal Aviation Agency; *FAA Statistical Handbook of Aviation*. Includes data from Civil Aeronautics Board.

No. 832. SCHEDULED PASSENGER/CARGO AIR CARRIERS—ACCIDENTS: 1940 TO 1964

[For years ending December 31. Hawaii included with domestic carriers and outlying areas with international, all years. Beginning 1960, intra-Alaska included with domestic carriers and Mainland-Alaska with international. Represents revenue operations accidents and, beginning 1960, includes military contract operations. See also *Historical Statistics, Colonial Times to 1957*, series Q 384-393]

ITEM	1940	1950	1955	1960	1961	1962	1963	1964 (prel.)
DOMESTIC								
Total accidents.....	29	36	41	62	56	35	39	46
Fatal accidents.....	3	4	8	10	5	5	4	6
Total fatalities.....	45	109	221	363	135	183	64	120
Passenger fatalities.....	35	96	195	326	124	158	48	106
Crew fatalities.....	10	13	26	37	11	25	16	14
Passengers carried.....1,000	3,039	17,424	38,027	52,392	52,713	55,950	63,925	72,998
Passenger-miles flown.....millions	1,168	8,363	20,551	31,852	32,548	35,287	40,263	46,046
Passenger-fatalities per 100 million passenger-miles flown ²	3.0	1.2	0.8	0.9	0.4	0.3	0.1	0.1
INTERNATIONAL								
Total accidents.....	6	5	5	5	2	8	10	7
Fatal accidents.....	—	2	1	2	—	—	1	3
Total fatalities.....	—	56	4	15	—	—	81	106
Passenger fatalities.....	—	48	2	10	—	—	73	94
Crew fatalities.....	—	8	2	5	—	—	8	12
Passengers carried.....1,000	170	1,678	3,417	5,495	5,699	6,598	7,513	8,776
Passenger-miles flown.....millions	104	2,388	4,601	8,633	9,154	10,566	12,440	14,978
Passenger-fatalities per 100 million passenger-miles flown.....	—	2.1	(Z)	0.1	—	—	0.6	0.6

— Entry represents zero. Z Less than 0.05.

¹ Includes 2 midair collisions nonfatal to air carrier occupants; excluded in computation of fatal accidents.

² Fatality rates exclude passenger deaths occurring in dynamite accidents: Nov. 1, 1955, 39 passengers; Jan. 6, 1960, 29 passengers; May 22, 1962, 37 passengers; May 7, 1964, 41 passengers.

Source: Federal Aviation Agency; *FAA Statistical Handbook of Aviation*. Data from Civil Aeronautics Board.

No. 833. SCHEDULED PASSENGER/CARGO OPERATIONS—OPERATING REVENUES AND EXPENSES OF CERTIFICATED AIR CARRIERS: 1955 TO 1964

[In millions of dollars. Includes intra-Alaska and intra-Hawaii carriers; see also headnote, table 831. 1955 not exactly comparable with later years because of revisions in reporting system. Beginning 1960, aircraft expense items include some ground and indirect expenses not previously included, and the ground and indirect expense item covers only expenses chargeable to general services and administration]

ITEM	1955	1959	1960	1961	1962	1963	1964 ¹
DOMESTIC							
Revenues	1,215	1,955	2,129	2,245	2,498	2,723	2,996
Passenger.....	1,065	1,722	1,860	1,951	2,168	2,374	2,615
Mail (including subsidy).....	61	95	113	130	139	148	150
Express and freight.....	62	61	103	115	136	153	174
Excess baggage.....	12	21	21	20	20	18	17
Other.....	15	25	32	30	35	35	40
Expenses	1,091	1,848	2,091	2,244	2,408	2,565	2,733
Aircraft.....							
Flying operations.....	328	551	601	633	659	701	736
Direct maintenance flight equipment.....	138	230	255	446	496	523	551
Depreciation and amortization flight equipment.....	93	151	184	283	293	289	306
Ground and indirect.....	532	915	1,048	882	960	1,042	1,130
Net operating income	124	107	38	1	90	158	263
INTERNATIONAL							
Revenues	398	592	685	722	810	930	1,018
Passenger.....	300	445	528	533	595	693	763
Mail (including subsidy).....	30	40	48	60	70	74	75
Express and freight.....	33	52	59	63	71	80	93
Excess baggage.....	7	9	10	10	10	12	11
Other.....	28	46	41	37	63	71	76
Expenses	380	574	639	699	724	799	854
Aircraft.....							
Flying operations.....	115	170	180	187	193	217	225
Direct maintenance flight equipment.....	87	58	58	109	114	118	129
Depreciation and amortization of flight equipment.....	29	54	66	104	92	95	91
Ground and indirect.....	200	292	336	298	325	369	409
Net operating income	18	19	45	24	86	131	164

¹ 12 months ending September 1964.

Source: Federal Aviation Agency; *FAA Statistical Handbook of Aviation*. Data from Civil Aeronautics Board.

No. 834. SCHEDULED AIR CARRIERS—AVAILABLE SERVICE AND UTILIZATION, AND TRAFFIC CARRIED: 1950 TO 1964

[In millions, except percent. Includes Alaska and Hawaii]

ITEM	1950	1955	1957	1958	1959	1960	1961	1962	1963	1964
SERVICE AND UTILIZATION										
Available ton-miles.....	2,426	5,289	7,231	7,326	8,337	9,384	10,580	13,326	13,929	16,301
Revenue ton-miles.....	1,398	3,088	4,082	4,120	4,734	5,024	5,394	6,238	6,860	8,016
Ton-mile load factor..... percent..	57.6	58.4	56.5	56.2	56.8	53.5	51.0	50.6	49.2	49.2
Available seat-miles.....	16,842	38,574	51,059	53,115	59,247	65,567	71,857	82,612	94,845	106,316
Revenue passenger-miles.....	10,243	24,351	31,261	31,499	36,372	38,865	39,831	43,760	50,361	58,494
Passenger load factor..... percent..	60.8	63.1	61.2	59.3	61.4	59.3	55.4	53.0	53.1	55.0
Revenue plane-miles.....	477	780	976	973	1,030	998	970	1,010	1,095	1,189
TRAFFIC CARRIED (revenue ton-miles)										
Total.....	1,358	3,088	4,082	4,120	4,734	5,024	5,394	6,238	6,860	8,016
Passenger ¹	1,001	2,368	2,999	3,023	3,490	3,733	3,827	4,210	4,839	5,630
U. S. mail:										
Priority.....	68	128	144	160	182	202	223	251	266	290
Nonpriority.....		15	17	17		39	76	89	90	81
Express.....	38	51	46	49	57	59	61	70	71	78
Freight.....	233	383	507	501	589	643	733	898	1,026	1,802
Charter flights.....	(NA)	106	319	321	340	296	423	668	514	582
Excess baggage ²	18	37	50	48	52	53	50	82	53	52

NA. Not available.

¹ Passenger-miles converted to ton-miles on basis of about 10 to 1; that is, 10 passengers with allowable free baggage are accepted as equaling 1 ton.

² Includes foreign mail revenue ton-miles.

Source: Air Transport Association of America, Washington, D.C.; *Air Transport Facts and Figures*, and unpublished data.

No. 835. SUPPLEMENTAL AIR CARRIERS—SUMMARY OF OPERATIONS: 1955 TO 1964

[In thousands, except number of operators. Supplemental air carriers are those carriers operating by authority of letters of registration granted by the Civil Aeronautics Board. Includes international operations; see also headnote, table 831. Figures shown for military cover activities performed under charter or other contract with the Department of Defense]

ITEM	1955	1959	1960	1961 ¹	1962	1963	1964 ²
Number of operators.....	50	31	30	27	25	15	15
Revenue-miles.....	40,330	38,670	49,498	45,724	(NA)	(NA)	(NA)
Commercial.....	17,376	14,386	13,228	15,697	(NA)	(NA)	(NA)
Military.....	22,954	24,284	36,270	30,027	(NA)	(NA)	(NA)
Revenue passengers.....	789	859	1,048	978	(NA)	(NA)	(NA)
Revenue passenger-miles.....	1,395,682	1,629,556	2,207,595	1,543,027	1,869,697	1,533,810	1,541,237
Commercial.....	716,096	769,382	871,094	898,890	816,384	398,010	517,107
Military.....	679,586	860,174	1,536,501	644,137	1,053,313	1,135,800	1,024,130
Available seat-miles.....	1,767,162	2,513,914	2,680,520	2,216,780	(NA)	(NA)	(NA)
Revenue cargo ton-miles.....	74,601	84,570	120,400	158,859	214,677	221,387	247,877
Commercial.....	21,191	11,387	5,355	7,370	22,368	20,340	32,883
Military.....	53,410	73,183	115,045	151,489	192,309	201,047	214,994
Available ton-miles.....	307,932	318,158	412,663	444,781	588,538	(NA)	(NA)
Operating revenue.....	\$76,824	\$76,480	\$83,446	\$82,168	\$107,013	\$92,697	\$102,941
Transport.....	66,923	66,405	79,711	79,330	103,114	\$92,262	\$102,249
Passenger.....	20,494	21,734	19,919	22,874	19,226	5,048	8,129
Freight.....	3,743	1,305	407	302	391	185	186
Contract and charter:							
Commercial.....	6,993	13,899	11,591	9,529	12,023	15,847	25,207
Military.....	35,133	29,309	47,527	45,678	70,829	70,005	71,898
Other.....	560	158	267	947	645	1,182	1,942
Other than transport.....	9,901	10,075	3,736	2,483	1,679	435	693
Operating expenses.....	\$73,067	\$84,676	\$85,295	\$81,034	\$99,787	\$87,572	\$90,141
Operating profit or loss.....	\$3,757	—\$8,196	—\$1,849	\$1,134	\$7,226	\$5,125	\$12,801

NA. Not available.

¹ Traffic data exclude President Airlines for the fourth quarter.

² 12 months ending September 1964.

³ Includes amounts for which no distribution was reported, as follows: 1961, \$355,000; 1962, \$2,319,000.

⁴ Total less than sum of details due to statistical discrepancies in reporting.

Source: Federal Aviation Agency; *FAA Statistical Handbook of Aviation*. Data from Civil Aeronautics Board.

No. 836. PERSONNEL OF SCHEDULED AIR CARRIERS: 1940 TO 1963

[As of December 31 or for years ending December 31. Hawaii included with domestic personnel and outlying areas with international, all years. Intra-Alaska included with domestic personnel and Mainland-Alaska with international, beginning 1960. Beginning 1960, groups not strictly comparable with prior years because of change in reporting procedures]

TYPE OF PERSONNEL	DOMESTIC				INTERNATIONAL			
	1940	1950	1960	1963 ¹	1940	1950	1960	1963 ¹
Total	15,984	61,903	133,717	143,112	6,067	20,883	29,054	32,327
Pilots and copilots.....	1,939	5,785	11,460	12,137	340	1,492	1,507	1,626
Other flight personnel.....	18	778	3,144	3,182	15	745	1,474	1,628
Purser, stewards, stewardesses.....	914	3,372	8,923	10,820	122	1,055	1,606	2,173
Communications personnel.....	193	2,450	3,122	2,683	-	953	1,044	1,018
Mechanics.....	4,054	15,788	28,087	28,692	² 1,350	² 3,818	² 5,247	² 5,062
Other hangar and field personnel.....	1,880	9,822	35,471	39,215	2,397	2,434	7,097	8,944
Office employees.....	5,855	21,894	27,819	26,225	1,834	9,244	7,036	8,071
All others.....	1,131	2,016	15,711	17,249	-	1,142	5,043	4,805

- Entry represents zero.

¹ Includes certain personnel chargeable to international operations. ² Includes other maintenance personnel.

Source: Federal Aviation Agency; *FAA Statistical Handbook of Aviation*. Data from Civil Aeronautics Board.

No. 837. SCHEDULED PASSENGER/CARGO AIR CARRIERS—PAYROLL AND AVERAGE SALARY OF PERSONNEL: 1963

[As of December 31 or for year ending December 31. Intra-Alaska and Hawaii included with domestic personnel; Mainland-Alaska and outlying areas with international]

TYPE OF PERSONNEL	DOMESTIC CARRIERS		INTERNATIONAL CARRIERS	
	Payroll (\$1,000)	Average salary	Payroll (\$1,000)	Average salary
Total	1,113,518	\$7,781	218,667	\$6,764
Pilots and copilots.....	221,787	18,272	34,669	21,322
Other flight personnel.....	46,875	14,417	9,428	15,013
Stewards, stewardesses, pursers.....	52,103	4,811	13,058	6,009
Communications personnel.....	16,387	6,108	3,896	3,827
Mechanics and other maintenance personnel.....	212,540	7,484	36,330	7,177
Aircraft and traffic servicing personnel.....	247,833	6,320	45,984	5,141
Office employees.....	185,466	6,346	43,853	5,433
All others.....	131,647	7,628	31,440	6,545

Source: Federal Aviation Agency; *FAA Statistical Handbook of Aviation*. Data from Civil Aeronautics Board.

No. 838. EMPLOYMENT, HOURS, AND EARNINGS IN AIRCRAFT INDUSTRIES—ANNUAL AVERAGES: 1948 TO 1964

ITEM	1948	1950	1955	1960	1961	1962	1963	1964
EMPLOYMENT¹ (1,000)								
Total	206.6	254.4	634.6	673.8	668.5	707.3	649.6	619.7
Aircraft.....	138.0	138.4	468.6	371.4	381.5	389.0	334.7	322.4
Aircraft engines and parts.....	48.6	57.0	168.0	170.5	182.6	197.3	210.7	196.9
Other aircraft parts and equipment.....	(NA)	(NA)	(NA)	131.9	124.4	121.0	104.2	100.4
HOURS AND EARNINGS								
Average weekly hours:								
Aircraft industries.....	41.2	41.4	41.4	40.6	41.1	41.9	41.3	40.5
Aircraft engines and parts industries.....	40.5	41.7	40.6	41.1	41.5	41.6	41.3	41.2
Average weekly earnings:								
Aircraft industries.....	\$60.36	\$67.15	\$89.84	\$110.03	\$114.54	\$120.25	\$121.50	\$123.35
Aircraft engines and parts industries.....	\$61.62	\$69.31	\$86.48	\$112.20	\$116.90	\$120.35	\$123.35	\$127.19
Average hourly earnings:								
Aircraft industries.....	\$1.46	\$1.62	\$2.17	\$2.71	\$2.78	\$2.87	\$2.94	\$3.05
Aircraft engines and parts industries.....	\$1.62	\$1.66	\$2.13	\$2.73	\$2.81	\$2.90	\$2.99	\$3.09

NA Not available.

¹ Data for week ending nearest middle of month. ² Includes aircraft propellers and parts.

Source: Federal Aviation Agency; *FAA Statistical Handbook of Aviation*. Data from Dept. of Labor, Bureau of Labor Statistics.

No. 839. SUMMARY OF AIRBORNE IMPORTS AND EXPORTS—SHIPPING WEIGHT, 1962 TO 1964, AND VALUE, 1964

[Weight in millions of pounds, value in millions of dollars, except as indicated. Includes trade of Alaska, Hawaii, and Puerto Rico with foreign countries. Exports include domestic and foreign merchandise; imports include merchandise for immediate consumption and entries into bonded warehouses. Covers both government and nongovernment shipments between U.S. and foreign countries with certain exclusions relating to Armed Forces abroad, household and personal effects, mail, etc.; for details, see source]

ITEM	IMPORTS				EXPORTS			
	Weight		1964		Weight		1964	
	1962	1963	Weight	Value	1962	1963	Weight	Value
Total ¹	98.1	113.1	128.5	956.1	217.2	248.3	326.6	1,844.6
CONTINENT								
North America	35.6	34.2	31.0	102.3	64.8	72.1	92.8	253.1
South America	6.6	11.7	14.4	32.2	39.9	41.0	55.8	149.5
Europe	48.2	58.2	68.4	678.4	46.3	64.5	97.9	736.4
Asia	7.1	8.3	13.8	105.0	8.4	10.6	15.9	132.5
Australia and Oceania	0.2	0.3	0.3	3.6	1.8	1.6	2.9	27.6
Africa	0.4	0.4	0.7	11.5	2.7	3.2	4.1	19.7
U.S. carriers ¹	38.4	46.3	59.1	403.7	77.8	94.6	125.7	679.1
Percent of all carriers	39.1	40.9	46.0	42.2	35.8	38.1	38.5	36.8
North America	14.2	13.3	13.4	40.3	28.5	31.6	42.2	106.5
South America	0.8	2.2	3.9	11.5	6.9	7.2	11.4	41.4
Europe	19.2	25.2	32.1	271.8	14.0	23.1	34.9	261.5
Asia	3.9	5.3	9.4	75.7	3.8	6.2	8.9	77.4
Australia and Oceania	(Z)	0.1	(Z)	0.8	0.6	0.4	0.8	11.4
Africa	0.2	0.2	0.3	3.5	0.9	1.2	1.7	7.5
CUSTOMS DISTRICT								
New York	48.8	58.2	69.3	720.5	72.2	90.7	129.6	847.3
Florida	23.0	28.6	27.3	31.0	73.8	77.6	98.8	179.8
Los Angeles	3.2	3.3	5.0	44.9	9.0	4.3	6.1	54.3
San Francisco	2.1	2.8	4.4	31.6	4.5	6.1	9.2	75.4
Chicago	2.3	3.0	4.3	50.8	8.6	11.3	16.3	73.9
Other ²	18.7	17.2	18.2	76.4	54.6	58.3	66.6	613.9
COMMODITY GROUP								
Animals and animal products, edible	24.7	24.2	21.2	9.7	11.7	14.8	19.2	20.4
Animals and animal products, inedible	9.5	10.7	11.6	130.2	4.4	4.8	5.6	55.9
Vegetable food products and beverages	5.9	7.2	6.7	1.1	2.6	3.4	5.9	1.5
Vegetable products, inedible, except fibers and wood	3.4	3.8	5.6	10.0	6.5	7.6	9.4	13.7
Textile fibers and manufactures	22.0	28.2	31.4	176.8	13.0	19.6	21.6	61.7
Wood and paper	1.4	1.7	1.5	2.1	4.2	5.1	9.9	7.0
Nonmetallic minerals	1.2	1.3	1.9	53.9	2.4	3.0	6.9	38.6
Metals and manufactures, except machinery and vehicles	3.1	4.3	5.1	58.9	9.1	10.8	18.2	66.4
Machinery and vehicles	13.8	14.8	21.2	142.9	102.7	109.2	140.0	1,182.3
Chemicals and related products	1.3	1.8	2.2	36.8	9.2	11.0	13.5	99.1
Miscellaneous	11.8	14.9	20.0	333.9	51.2	62.0	71.4	298.0

Z Less than 50,000 pounds.

¹ Value of imports includes estimates of informal entries; exports include shipments of "special category" commodities and estimated shipments valued under \$100, which are excluded from the continent totals.

² Value of imports excludes estimates of informal entries; exports include shipments of "special category" commodities and estimated shipments valued under \$100, which are excluded from the continent totals.

³ Exports include shipments of "special category" commodities which are excluded from individual districts.

Source: Dept. of Commerce, Bureau of the Census; summary reports, FT 988, *United States Airborne Foreign Trade*, FT 380, *United States Airborne General Imports of Merchandise*, and FT 780, *United States Airborne Exports of Domestic and Foreign Merchandise*.

No. 840. CIVIL AIRCRAFT SHIPMENTS: 1950 TO 1964

[Represents manufacturers' shipments of complete aircraft. Includes both domestic and export output]

ITEM	1950	1955	1958	1959	1960	1961	1962	1963	1964
Total	3,520	4,820	6,882	8,242	8,181	7,414	7,249	8,121	10,064
Transports	129	113	218	262	238	180	148	80	165
General aviation	3,391	4,563	6,478	7,902	7,726	6,943	6,797	7,623	9,449
Single-engine:									
1- to 3-place	(NA)	786	1,012	1,649	1,366	2,159	1,247	1,404	2,187
4-place and over	(NA)	2,969	4,597	5,136	5,072	3,821	4,513	4,913	5,625
Multieengine	(NA)	808	869	1,017	1,288	963	1,032	1,311	1,637
Rotorcraft	(NA)	144	186	178	217	291	306	413	450

NA Not available.

Source: Federal Aviation Agency; *FAA Statistical Handbook of Aviation*. Includes data from Dept. of Commerce, Bureau of the Census; *Current Industrial Reports*.

No. 841. AIRCRAFT—VALUE OF BACKLOG ORDERS, NET NEW ORDERS, AND NET SALES: 1951 TO 1963

[In millions of dollars. Reported by manufacturers of complete aircraft, aircraft engines, and propellers]

YEAR	Backlog, Jan. 1	Net new orders ¹	Net sales	Backlog, Dec. 31	YEAR	Backlog, Jan. 1	Net new orders ¹	Net sales	Backlog, Dec. 31
1951-----	5,039	11,100	3,473	12,666	1963				
1952-----	12,666	11,482	6,495	17,653	Aircraft and parts: ²				
1953-----	17,653	7,611	8,511	16,753	U.S. military-----	3,687	3,143	2,986	3,844
1954-----	16,848	6,309	8,305	14,862	Other-----	1,801	1,221	1,055	1,467
1955-----	14,862	9,323	8,470	15,705	Aircraft engines and parts:				
1956-----	15,705	12,141	9,496	18,350	U.S. military-----	1,177	1,076	1,172	1,081
1957-----	18,350	7,947	11,766	14,531	Other-----	363	471	404	430
1958-----	14,531	10,110	11,470	13,171	Missiles and parts:				
1959-----	13,171	10,204	11,255	12,120	U.S. military-----	3,345	7,208	6,360	4,193
1960-----	12,120	11,373	10,997	15,452	Other-----	386	612	545	453
1961-----	15,452	13,418	14,948	14,147	Other products and services-----	2,388	3,924	3,886	2,426
1962-----	14,147	14,962	15,972	13,137					
1963-----	12,647	17,655	16,408	13,894					

¹ New orders received during year less terminations during year.

² Includes propellers and propeller parts.

Source: Federal Aviation Agency. Data from Dept. of Commerce, Bureau of the Census; *Current Industrial Reports*.

No. 842. EXPORTS OF AIRCRAFT AND AIRCRAFT PARTS AND ACCESSORIES: 1950 TO 1964

[Value in thousands of dollars. See *Historical Statistics, Colonial Times to 1957*, series Q 349-350, for total number and value of civil aircraft]

ITEM	1950		1955		1960		1963		1964	
	Number of units	Value	Number of units	Value	Number of units	Value	Number of units	Value	Number of units	Value
Aircraft, parts, and accessories-----	(X)	(NA)	(X)	727,549	(X)	1,329,487	(X)	1,241,133	(X)	1,212,438
Civil aircraft-----	756	44,287	1,714	129,924	2,336	537,126	2,251	244,101	2,577	287,344
Aircraft 3,000 pounds airframe weight and over-----	48	40,444	369	118,341	304	506,721	320	210,940	412	246,894
Transports, new-----	48	40,444	95	81,144	159	480,126	181	190,965	225	211,048
3,000-14,999 pounds-----	4	398	39	2,530	57	6,711	147	14,578	188	22,073
15,000-29,999 pounds-----	15	6,665	5	2,364	10	9,094	4	3,567	5	6,986
30,000 pounds and over-----	29	33,381	51	76,250	92	464,321	30	172,820	32	181,989
Rotary-wing aircraft, new-----	(1)	(1)	15	2,161	12	3,965	14	5,876	22	10,237
Used and rebuilt aircraft, including converted-----	-	-	259	35,036	133	22,630	125	14,099	165	25,579
Aircraft under 3,000 pounds airframe weight-----	708	3,843	1,345	11,583	2,032	30,405	1,931	33,161	2,165	40,480
Utility aircraft, new-----	408	2,253	749	7,422	1,528	23,592	1,583	26,853	1,834	33,268
3-place and under-----	173	509	296	1,948	374	2,996	484	5,653	640	7,380
4-place and over-----	235	1,744	453	5,474	1,154	20,596	1,099	21,200	1,194	25,888
Rotary-wing aircraft, new-----	38	984	51	2,004	70	3,738	109	3,634	101	4,381
Aircraft, new, not elsewhere classified-----	-	-	4	8	3	22	8	52	6	166
Used and rebuilt aircraft, including converted-----	262	606	541	2,149	431	3,053	231	2,322	224	2,665
Air-cooled reciprocating engines, new-----	205	201	897	2,016	1,464	3,716	1,292	3,635	1,677	5,257
Other aircraft, parts, and accessories-----	(X)	(NA)	(X)	595,609	(X)	788,646	(X)	993,397	(X)	919,837

- Entry represents zero. NA Not available. X Not applicable.

¹ Totals for "Rotary-wing aircraft, new" are shown in the "under 3,000 pounds" category. A weight breakdown of these figures is not available.

² Includes military aircraft, new engines 400 hp. and over, parts and accessories.

Source: Federal Aviation Agency; *FAA Statistical Handbook of Aviation*. Data from Dept. of Commerce, Bureau of the Census; *Current Industrial Reports*.

No. 843. WATERBORNE COMMERCE, FOREIGN AND DOMESTIC—CARGO TONNAGE: 1940 to 1963

[In millions of short tons. Includes Alaska, Hawaii, and outlying areas. Import and export figures differ slightly from those shown in tables 845 and 846, due to minor differences in basic concepts which are explained in the source. See also *Historical Statistics, Colonial Times to 1957*, series Q 216-229]

CLASS	1940	1945	1950	1955	1960	1961	1962	1963
Net total, foreign and domestic.	608	619	821	1,016	1,100	1,062	1,129	1,174
Foreign commerce	111	172	169	271	339	329	359	386
Imports, through seaports.....	41	46	96	144	198	188	207	209
Exports, through seaports.....	60	100	44	95	105	106	110	180
Imports, Great Lakes ports.....	4	7	6	9	13	12	16	18
Exports, Great Lakes ports.....	17	21	24	23	23	23	25	29
Domestic commerce ¹	497	447	651	745	761	733	771	788
Coastwise, between ports.....	157	91	183	196	209	207	215	214
Great Lakes, between ports.....	141	158	170	185	155	137	136	142
Local traffic of seaports, Great Lakes ports, and inland waterways ports.....	98	98	107	113	104	94	102	90
Traffic between ports and river ports ²	70	87	191	250	291	294	316	332
Traffic between ports of outlying areas of the United States.....	(3)	(2)	1	2	1	1	1	2

¹ For 1940 and 1945, approximate net total, excluding duplications in domestic traffic.

² Represents traffic among ports and communities mainly utilizing inland waterways.

³ Included in other types of domestic traffic.

Source: Dept. of the Army, Corps of Engineers; figures through 1950, *Annual Report of Chief of Engineers*, Part 2; thereafter, *Waterborne Commerce of the United States*.

No. 844. UNITED STATES RECEIPTS AND PAYMENTS FOR INTERNATIONAL TRANSPORTATION: 1947 to 1964

[In millions of dollars. Includes Alaska and Hawaii. Data are international transportation transactions recorded for balance of payments purposes (see table 1222). Receipts include freight on exports carried by U.S. operated carriers and foreign carrier expenditures in U.S. ports. Payments include freight on imports carried by foreign carriers and U.S. carrier port expenditures abroad. Freight on exports carried by foreign carriers is excluded since such payments are directly or indirectly for foreign account. Similarly, freight on U.S. imports carried by U.S. carriers is a domestic rather than an international transaction. Minus sign (—) denotes decrease. See *Historical Statistics, Colonial Times to 1957*, series U 170 and U 177, for totals]

ITEM	1947	1950	1955	1959	1960	1961	1962	1963	1964 (prel.)
Total receipts	1,738	1,033	1,406	1,646	1,637	1,821	1,925	2,078	2,254
Ocean transportation.....	1,593	859	1,137	1,224	1,272	1,347	1,429	1,561	1,699
Export freight earnings.....	1,154	380	448	359	428	424	440	518	560
Freight earnings on shipments between foreign countries.....	100	110	106	140	136	155	177	154	156
Passenger fares.....	39	20	23	20	19	9	10	10	12
Port expenditures.....	281	313	548	698	681	751	792	870	962
Charter hire.....	10	36	12	7	8	8	10	9	9
Other transportation.....	145	174	269	422	415	474	496	517	555
Total payments	583	818	1,204	1,759	1,988	1,921	2,115	2,310	2,481
Ocean transportation.....	456	643	946	1,299	1,406	1,360	1,505	1,640	1,730
Import freight payments.....	141	295	480	812	910	746	851	887	985
Dry cargo.....	133	255	358	674	(NA)	(NA)	(NA)	(NA)	(NA)
Tanker.....	8	40	122	138	(NA)	(NA)	(NA)	(NA)	(NA)
Passenger fares.....	47	121	138	183	212	215	229	235	218
Port expenditures.....	231	138	153	155	167	231	260	288	315
Charter hire.....	37	89	175	149	117	168	165	230	212
Other transportation.....	127	175	258	460	582	561	610	670	751
Receipts balance	1,155	215	202	-113	-301	-100	-190	-232	-227

NA Not available.

Source: Dept. of Commerce, Office of Business Economics; *Balance of Payments Statistical Supplement*, 1963 edition, *Survey of Current Business*, August 1963, June 1964, and March 1965, and unpublished data.

No. 845. WATERBORNE IMPORTS AND EXPORTS—CARGO TONNAGE, BY FLAG OF CARRIER VESSEL: 1935 TO 1964

[In thousands of short tons. Prior to 1946, excludes cargoes carried by ships of less than 100 tons gross capacity. Beginning 1950, excludes U.S. Army and Navy cargo, and includes Alaska, Hawaii, and Puerto Rico. Beginning July 1950, excludes commodities classified for security reasons as "Special Category." For 1955, and 1959 through 1962, exports exclude shipments individually valued under \$500; beginning 1963, exports exclude shipments to Canada individually valued under \$2,000 and to other countries under \$500. For 1955, imports exclude shipments under 2,000 pounds shipping weight regardless of value, as well as shipments valued at less than \$100 regardless of shipping weight; beginning 1959, imports exclude only those shipments under \$100. For further coverage details see report, FT 985, *Waterborne Foreign Trade Statistics*, published monthly by Bureau of the Census. See also *Historical Statistics, Colonial Times to 1967*, series Q 210-215]

YEAR	Total trade	Percent by U.S. flag	IMPORTS BY FLAG OF CARRIER VESSEL				EXPORTS BY FLAG OF CARRIER VESSEL			
			Total	U.S.	Foreign	Percent U.S.	Total	U.S.	Foreign	Percent U.S.
TOTAL										
1935-----	80,765	31.7	38,042	15,820	22,221	41.6	42,723	9,789	32,935	22.9
1940-----	105,596	28.7	44,667	17,322	27,345	38.8	60,929	12,939	47,990	21.2
1945 ¹ -----	101,030	68.4	39,426	31,415	8,011	79.7	61,603	37,729	23,874	61.2
1950-----	159,389	39.3	96,703	42,268	54,435	43.7	62,685	20,379	42,306	32.5
1955-----	253,919	23.5	141,123	37,409	103,715	26.5	112,796	22,144	90,652	19.6
1959-----	308,762	11.9	200,481	19,219	181,262	9.5	108,281	17,724	90,557	16.3
1960-----	322,717	12.3	198,830	19,627	179,203	9.9	123,887	20,133	103,754	16.3
1961-----	315,406	10.6	187,887	15,155	172,732	8.1	127,519	18,411	109,108	14.4
1962-----	344,631	11.0	210,631	18,373	192,257	8.7	134,001	19,635	114,466	14.6
1963-----	368,664	9.9	212,642	15,682	196,960	7.4	156,122	20,885	135,237	13.4
1964-----	405,205	9.9	238,774	16,278	212,496	7.0	171,431	23,937	147,494	14.0
DRY CARGO										
1945 ¹ -----	63,083	70.9	21,716	17,053	4,663	78.5	41,367	27,672	13,695	66.9
1950-----	100,189	31.2	40,611	14,823	25,788	31.8	53,578	16,429	37,149	30.7
1955-----	169,231	23.2	68,437	19,855	48,582	29.0	100,794	19,762	81,032	19.6
1959-----	194,966	15.6	98,315	14,079	84,236	14.9	96,451	15,870	80,581	16.4
1960-----	202,497	15.2	94,631	13,813	80,818	14.6	107,566	16,980	90,586	15.8
1961-----	196,004	13.7	84,185	10,904	73,281	13.0	111,819	16,002	95,817	14.3
1962-----	218,173	13.4	98,458	12,355	86,103	12.5	119,715	16,888	102,827	14.1
1963-----	239,486	12.0	98,623	10,998	87,625	11.1	140,862	17,750	123,112	12.6
1964-----	266,816	12.0	113,371	11,967	101,404	10.6	153,445	20,083	133,362	13.1
TANKER CARGO										
1945 ¹ -----	37,947	64.4	17,711	14,362	3,349	81.1	20,236	10,058	10,179	49.7
1950-----	59,199	53.0	50,092	27,445	22,647	54.8	9,107	3,950	5,157	43.4
1955-----	84,688	23.5	72,686	17,554	55,133	24.2	12,002	2,382	9,620	19.8
1959-----	113,796	5.6	101,966	4,540	97,426	4.5	11,830	1,554	9,976	15.7
1960-----	120,219	7.5	103,898	5,814	98,084	5.6	16,321	3,153	13,168	19.3
1961-----	119,402	5.6	103,702	4,251	99,451	4.1	15,700	2,409	13,291	15.3
1962-----	126,458	6.9	112,172	6,018	106,154	5.4	14,286	2,647	11,639	18.6
1963-----	129,178	6.0	113,918	4,684	109,234	4.1	15,260	3,135	12,125	20.5
1964-----	135,390	5.9	120,403	4,311	116,092	3.6	17,987	3,854	14,133	21.4

¹ Excludes U.S. Army and Navy cargo, and Great Lakes.

No. 846. WATERBORNE IMPORTS AND EXPORTS—CARGO TONNAGE, BY COASTAL DISTRICT: 1945 TO 1964

[In thousands of short tons. See headnote, table 845]

DISTRICT	1945	1950	1955	1959	1960	1961	1962	1963	1964
IMPORTS									
Atlantic ports-----	30,748	76,062	105,990	137,612	135,313	125,349	139,579	140,155	149,367
Gulf ports-----	5,675	10,930	17,345	28,241	27,304	26,948	30,019	30,180	32,255
Pacific ports-----	3,003	4,095	9,038	19,806	23,281	23,621	25,410	24,272	28,001
Great Lakes ports-----	(NA)	5,616	8,751	14,822	12,932	11,971	15,622	17,936	24,151
EXPORTS									
Atlantic ports-----	39,609	15,228	54,006	41,478	44,002	44,454	48,983	56,788	57,464
Gulf ports-----	14,737	10,818	22,600	31,394	36,730	40,053	43,605	47,651	58,529
Pacific ports-----	7,258	7,270	13,394	14,697	19,351	20,050	18,248	23,581	25,043
Great Lakes ports-----	(NA)	23,370	21,096	20,612	22,005	22,063	25,165	28,103	30,395

NA Not available.

Source of tables 846 and 846: Dept. of Commerce, Bureau of the Census; *Foreign Commerce and Navigation of the United States*, releases, and unpublished data.

Imports and Exports

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No. 847. WATERBORNE IMPORTS AND EXPORTS—VALUE OF TRADE, BY COASTAL DISTRICT: 1962 TO 1964

[In millions of dollars. Includes trade of Alaska, Hawaii, and Puerto Rico with foreign countries]

DISTRICT AND TYPE OF VESSEL	TOTAL TRADE			IMPORTS			EXPORTS		
	1962	1963	1964	1962	1963	1964	1962	1963	1964
Total	25,510	27,192	30,530	11,805	12,399	13,441	13,705	14,793	17,089
Atlantic.....	15,471	16,092	17,698	8,159	8,418	8,953	7,312	7,674	8,645
Dry cargo.....	14,114	14,689	16,170	6,900	7,104	7,600	7,214	7,565	8,570
Tanker.....	1,358	1,423	1,428	1,260	1,314	1,353	98	109	76
Gulf.....	5,158	5,506	6,788	1,361	1,470	1,612	3,797	4,036	5,176
Dry cargo.....	4,465	4,832	5,843	1,271	1,374	1,522	3,194	3,458	4,321
Tanker.....	693	674	945	90	96	90	603	578	855
Pacific.....	3,424	3,916	4,208	1,724	1,845	2,076	1,700	2,071	2,132
Dry cargo.....	3,081	3,566	3,819	1,459	1,602	1,791	1,602	1,964	2,028
Tanker.....	364	350	388	266	243	285	98	107	103
Great Lakes.....	1,457	1,678	1,935	561	606	799	896	1,012	1,136
Dry cargo.....	1,421	1,626	1,856	554	652	788	867	974	1,067
Tanker.....	36	52	80	7	14	11	29	38	69

Source: Dept. of Commerce, Bureau of the Census; annual review, *United States Waterborne Foreign Commerce*.

No. 848. WATERBORNE IMPORTS AND EXPORTS—SHIPPING WEIGHT OF PRINCIPAL COMMODITIES IN OCEANBORNE TRADE: 1962 AND 1963

[In thousands of short tons. Includes trade of Alaska, Hawaii, and Puerto Rico with foreign countries. Import data exclude shipments of under \$100 in value; export data exclude shipments of under \$500 in value. "N.e.c." means not elsewhere classified]

COMMODITY	1962	1963	COMMODITY	1962	1963
IMPORTS			EXPORTS		
Crude petroleum.....	50,000	56,234	Bituminous coal and lignite.....	27,234	33,505
Residual fuel oil, gas oil, and distillate fuel oil.....	44,260	44,988	Wheat.....	14,766	17,903
Iron ore and concentrates.....	26,786	24,140	Corn.....	9,111	8,849
Aluminum ores, concentrates, and scrap.....	13,110	11,909	Iron and steel scrap.....	4,239	5,280
Petroleum products, n.e.c.....	6,908	5,487	Residual fuel oil, gas oil, and distillate fuel oil.....	3,403	5,061
Gypsum and plaster rock.....	5,341	5,441	Phosphate rock.....	3,965	4,264
Iron and steel mill products.....	3,762	4,551	Soybeans.....	3,610	4,082
Sugar.....	4,814	4,476	Grain sorghums.....	2,999	3,083
Jet fuels.....	1,916	2,482	Anthracite coal.....	1,072	2,688
Manganese.....	2,104	2,222	Lubricating oils and greases.....	2,584	2,643
Bananas.....	1,767	1,846	Logs.....	1,294	2,547
Pulpwood.....	1,560	1,801	Wheat flour and semolina.....	2,093	2,069
Lumber and shingles.....	1,546	1,779	Coke, including petroleum coke.....	1,233	1,991
Coffee, raw or green.....	1,628	1,590	Iron ore and concentrates.....	1,169	1,945
Standard newsprint paper.....	1,604	1,566	Animal feeds, n.e.c.....	1,476	1,880
Molasses, inedible.....	1,474	1,475	Iron and steel mill products.....	1,533	1,805
Chrome.....	1,453	1,350	Sulphur.....	1,678	1,735
Petroleum asphalt.....	1,167	1,108	Woodpulp.....	1,136	1,880
Sulphur.....	774	921	Industrial chemicals, n.e.c.....	1,011	1,341
Salt.....	758	844	Rice.....	1,161	1,284
Nonmetallic minerals and manufactures, n.e.c.....	782	843	Cotton, unmanufactured.....	973	1,133
Crushed limestone.....	399	713	Lumber and shingles.....	805	856
Nitrogenous fertilizer.....	796	704	Barley and rye.....	1,728	887
Gasoline and other motor fuel.....	616	685	Tallow, inedible.....	(2)	696
Woodpulp.....	551	633	Paperboard, except building board.....	551	667

Z Less than 500 short tons.

Source: Dept. of Commerce, Bureau of the Census; annual review, *United States Waterborne Foreign Commerce*.

No. 849. COMMERCE OF SELECTED UNITED STATES PORTS: 1963

[In thousands of short tons (cargo). Excludes Great Lakes. In addition to commerce shown here, many ports have (a) commerce with ports on internal rivers and canals; (b) purely local port traffic]

PORT	Im-ports	Ex-ports	COASTWISE		PORT	Im-ports	Ex-ports	COASTWISE	
			Re-ceipts	Ship-ments				Re-ceipts	Ship-ments
Total	209,370	129,782	213,708	213,739					
ATLANTIC COAST PORTS					GULF COAST PORTS				
Portland Harbor, Maine.....	15,197	89	2,909	508	Charlotte Harbor, Fla.....	22	625	185	951
Portsmouth Harbor, N.H.....	765	-	807	-	Tampa Harbor, Fla.....	1,252	4,450	6,409	1,879
Salem Harbor, Mass.....	389	-	1,211	219	Port St. Joe Harbor, Fla.....	-	17	1,388	-
Boston, Mass.....	5,808	809	11,228	654	Mobile Harbor, Ala.....	6,680	1,956	342	3,307
Fall River Harbor, Mass.....	318	(Z)	2,306	33	New Orleans, La.....	4,832	15,940	1,303	19,196
Providence River and Harbor, R.I.....	1,116	122	6,591	869	Baton Rouge, La.....	4,667	4,368	377	7,087
New London Harbor, Conn.....	408	-	407	202	Lake Charles, La. ²	135	1,010	87	6,984
New Haven Harbor, Conn.....	1,362	208	5,883	1,059	Galveston, Tex.....	191	3,162	35	133
Bridgeport Harbor, Conn.....	439	64	1,601	335	Texas City, Tex.....	14	276	756	8,862
Norwalk Harbor, Conn.....	-	-	1,077	(Z)	Houston, Tex.....	3,492	6,783	1,501	22,076
Stamford Harbor, Conn.....	-	-	784	35	Corpus Christi, Tex.....	3,032	2,196	309	9,851
Port of New York, N.Y., and N.J.....	40,015	7,228	43,295	14,214	Harbor Island, Tex.....	1,520	(Z)	-	4,734
Hampstead Harbor, N.Y.....	-	-	1,744	3,159	Freeport Harbor, Tex.....	3	89	38	2,340
Port Jefferson Harbor, N.Y.....	-	-	1,431	57	Brazos Island Harbor, Tex.....	1,837	222	35	1,794
Port of Albany, N.Y.....	708	634	3,431	9	Beaumont, Tex.....	23	1,515	1,589	19,150
Delaware River and tributaries.....	44,743	5,689	26,408	6,279	Port Arthur, Tex.....	163	3,028	3,414	17,750
Baltimore Harbor and Channels, Md.....	17,423	6,823	8,055	1,324	PACIFIC COAST PORTS				
Norfolk Harbor, Va.....	2,757	21,831	6,378	4,194	San Diego Harbor, Calif.....	331	371	1,000	7
Port of Newport News, Va.....	896	10,980	(Z)	1,025	Long Beach Harbor, Calif.....	3,179	3,193	1,250	2,286
Port of Wilmington, N.C.....	640	165	3,735	5	Los Angeles Harbor, Calif.....	5,639	2,961	4,130	6,898
Charleston Harbor, S.C.....	1,529	491	2,540	273	San Francisco Bay Area, Calif.....	6,446	5,500	11,945	8,472
Savannah Harbor, Ga.....	1,918	612	1,331	74	Stockton, Calif.....	190	1,624	159	165
Jacksonville Harbor, Fla.....	2,923	273	3,287	190	Coos Bay, Oreg.....	(Z)	454	343	480
Port Everglades Harbor, Fla.....	908	127	4,106	193	Portland, Oreg.....	664	3,396	5,538	201
Miami Harbor, Fla.....	416	156	250	82	Vancouver, Wash.....	34	772	156	34
San Juan Harbor, P.R.....	2,300	273	1,554	591	Longview, Wash.....	110	1,773	233	153
					Tacoma Harbor, Wash.....	1,808	1,266	339	149
					Seattle Harbor, Wash.....	953	1,047	3,082	743
					Bellingham Bay and Harbor, Wash.....	717	197	21	54
					Seward Harbor, Alaska.....	-	-	509	105
					Honolulu Harbor, Hawaii.....	469	132	2,240	1,538

- Entry represents zero. Z Less than 500 tons.

¹ Includes data for ports not shown separately.

² Includes Calcasieu River and Pass.

Source: Dept. of the Army, Corps of Engineers; *Waterborne Commerce of the United States*.

No. 850. FEDERAL EXPENDITURES FOR CIVIL FUNCTIONS OF THE CORPS OF ENGINEERS, U.S. ARMY: 1940 TO 1964

[In thousands of dollars. For years ending June 30. Includes Alaska, Hawaii, and outlying areas. Represents funds actually expended under the direction of the Chief of Engineers for maintenance and improvement of rivers and harbors, flood control, and other miscellaneous works]

YEAR	Amount	YEAR	Amount	YEAR	Amount	YEAR	Amount
1940.....	213,889	1947.....	269,380	1953.....	635,512	1959.....	806,427
1941.....	220,734	1948.....	380,615	1954.....	539,687	1960.....	868,573
1942.....	198,041	1949.....	572,830	1955.....	511,587	1961.....	938,032
1943.....	222,053						
1944.....	175,589	1950.....	634,634	1956.....	556,724	1962.....	964,064
1945.....	134,216	1951.....	620,681	1957.....	666,433	1963.....	1,092,579
1946.....	168,987	1952.....	597,102	1958.....	718,532	1964.....	1,096,564

Source: Dept. of the Army, Corps of Engineers; annual report, *Statement of Costs*.

No. 851. COMMERCE OF SELECTED GREAT LAKES PORTS: 1950 TO 1963
 [In thousands of short tons (cargo). Comprises foreign, lakewise, and coastwise shipping]

PORT	RECEIPTS				SHIPMENTS			
	1950	1955	1960	1963	1950	1955	1960	1963
Total	175,637	193,591	168,043	159,893	193,511	207,538	178,287	170,357
Ashland Harbor, Wis.....	685	451	404	375	5,422	4,527	1,170	712
Ashtabula Harbor, Ohio.....	10,447	9,455	7,773	7,223	3,302	3,598	2,450	3,590
Buffalo, N.Y., Port of.....	16,458	19,318	15,595	14,367	2,417	2,436	1,225	863
Chicago, Ill., Port of.....	15,813	16,872	12,303	11,254	4,093	6,349	8,411	9,970
Cleveland Harbor, Ohio.....	17,375	19,744	17,113	16,551	392	358	511	197
Conneaut Harbor, Ohio.....	9,562	14,139	6,570	2,105	2,522	994	688	1,164
Detroit, Mich., Port of.....	21,090	24,295	25,334	27,990	1,298	1,626	1,892	1,496
Duluth-Superior, Minn. and Wis.....	10,117	7,142	5,155	4,493	53,009	61,156	37,512	37,026
Indiana Harbor, Ind.....	10,355	13,695	12,116	13,657	5,182	6,386	7,059	4,820
Lorain Harbor, Ohio.....	8,153	5,553	5,036	3,649	3,264	2,258	1,659	1,084
Milwaukee Harbor, Wis.....	7,367	7,157	6,861	4,897	1,421	1,532	1,647	1,728
Sandusky Harbor, Ohio.....	1	1	38	36	8,822	7,961	5,616	3,922
Toledo Harbor, Ohio.....	4,640	6,504	5,870	6,542	29,307	28,710	27,815	33,459
Two Harbors (Agate Bay), Minn.....	216	99	-	(Z)	18,948	19,004	15,266	(Z)
All other.....	43,808	49,156	47,875	46,754	53,122	60,705	65,465	70,326

- Entry represents zero. Z Less than 500 tons.

Source: Dept. of the Army, Corps of Engineers; 1950, *Annual Report of the Chief of Engineers*, Part 2; thereafter, *Waterborne Commerce of the United States*.

No. 852. FREIGHT CARRIED ON INLAND WATERWAYS, BY SYSTEM: 1940 TO 1963
 [In millions of ton-miles. Excludes Alaska and Hawaii, except as noted]

SYSTEM	1940	1945	1950	1955	1960	1963
Total	118,057	142,737	163,344	216,508	220,253	234,172
Atlantic coast rivers.....	1,859	1,036	6,497	27,042	28,583	30,148
Gulf coast rivers.....	593	345	1,229	13,860	16,932	19,853
Pacific coast rivers.....	1,229	1,555	1,686	4,736	6,001	6,533
Mississippi River System ¹	13,934	19,596	33,598	52,019	69,257	82,315
Other waterways ²	10	9	8	5	12	32
Canals and connecting channels ³	4,787	7,168	8,639	(X)	(X)	(X)
Great Lakes System.....	95,645	113,028	111,037	118,845	99,468	95,291

X Not applicable.

¹ Comprises main channels and all tributaries of the Mississippi, Illinois, Missouri, and Ohio Rivers.

² Beginning 1960, includes Alaskan waterways.

³ Except Great Lakes. Beginning 1955, distributed by inland waterway system.

Source: Dept. of the Army, Corps of Engineers; through 1950, *Annual Report of the Chief of Engineers*, Part 2; thereafter, *Waterborne Commerce of the United States*.

No. 853. FREIGHT CARRIED ON GREAT LAKES SYSTEM: 1963
 [In millions of ton-miles]

AREA	Total	DOMESTIC				FOREIGN	
		Lakewise	Coast-wise	Internal	Local and Intraport	Canadian	Overseas
Total	95,291	68,285	85	543	85	20,838	5,456
Lake Superior.....	24,236	20,351	-	-	(Z)	3,260	625
St. Marys River.....	4,664	3,791	-	-	(Z)	771	103
Lake Michigan, including Port of Chicago ¹	17,425	14,247	4	392	66	2,066	849
Lake Huron.....	21,021	16,475	3	12	3	3,642	885
St. Clair River, including channels in Lake St. Clair.....	5,200	4,064	1	3	1	912	220
Detroit River.....	2,911	2,257	3	3	1	512	134
Lake Erie, including upper Niagara River.....	18,070	7,000	38	59	14	4,773	1,186
Welland Canal.....	804	12	5	10	-	628	140
Lake Ontario, including lower Niagara River.....	3,837	73	26	59	-	2,796	833
St. Lawrence River, between International Boundary Line and Lake Ontario.....	2,123	15	6	4	-	1,478	620

- Entry represents zero. Z Less than 500,000 ton-miles.

¹ Comprises Chicago Harbor, North Branch, South Branch, Sanitary Ship Canal, Calumet-Sag Channel, Lake Calumet, Calumet Harbor and River.

Source: Dept. of the Army, Corps of Engineers; *Waterborne Commerce of the United States*.

No. 854. FREIGHT CARRIED ON MISSISSIPPI RIVER SYSTEM: 1940 TO 1963

[Net traffic. Comprises main channels and all tributaries of the Mississippi, Illinois, Missouri, and Ohio Rivers]

YEAR	TRAFFIC IN SHORT TONS (1,000)					TRAFFIC IN TON-MILES (millions)				
	Total	Inland	Coast-wise	Foreign		Total	Inland	Coast-wise	Foreign	
				Imports	Exports				Imports	Exports
1940-----	88,980	73,174	0,001	3,157	3,640	13,934	11,578	1,523	385	447
1945-----	95,543	82,081	4,954	3,114	5,394	19,595	17,738	849	340	668
1950-----	138,145	114,697	13,877	4,395	5,176	33,598	30,282	2,074	599	643
1955-----	194,363	163,760	16,060	6,296	8,248	62,019	47,418	2,473	1,046	1,082
1958-----	209,881	172,582	16,996	10,475	9,828	59,208	53,443	2,507	1,811	1,446
1959-----	223,950	183,909	19,146	10,424	10,471	65,721	59,565	2,811	1,732	1,614
1960-----	233,959	188,098	21,994	11,284	12,584	68,257	62,367	3,184	1,821	1,884
1961-----	240,220	190,968	23,900	10,837	14,514	72,326	64,840	3,453	1,843	2,188
1962-----	267,962	200,041	26,960	12,682	18,329	79,305	70,999	3,303	2,223	2,780
1963-----	271,320	211,540	28,370	11,082	20,327	82,315	73,520	3,843	1,928	3,024

No. 855. COMMERCE ON SELECTED RIVERS, CANALS, AND CONNECTING CHANNELS: 1940 TO 1963

[In thousands of short tons (cargo). Excludes general ferry traffic and nonregulated car ferry traffic]

WATERWAY	1940	1945	1950	1955	1960	1963
RIVERS						
Hudson River, N. Y. (Mouth of Spuyten Duyvil Creek to Waterford, N. Y.)-----	11,516	5,747	14,574	20,203	19,062	121,787
Delaware River, Philadelphia, Pa., to Trenton, N. J.-----	4,410	4,261	7,086	11,010	14,919	16,449
Delaware River, Philadelphia, Pa., to the sea-----	27,668	29,558	69,283	86,784	98,824	102,243
Potomac River below Washington, D. C.-----	3,016	1,936	2,402	3,796	4,378	5,125
James River, Va.-----	2,649	1,469	3,663	5,197	5,186	6,461
Wilmington Harbor, N. C.-----	2,785	1,169	4,022	4,693	5,168	6,276
Black Warrior, Warrior, and Tombigbee Rivers, Ala.-----	1,890	1,492	2,603	4,221	5,804	6,560
San Joaquin River, Calif.-----	1,049	1,220	1,495	2,414	4,467	4,667
Columbia and Lower Willamette Rivers below Vancouver, Wash., and Portland, Oreg.-----	15,028	16,635	18,578	19,826	21,867	25,927
Columbia River from Vancouver, Wash., to The Dalles, Oreg.-----	1,884	1,417	2,845	3,216	4,349	4,947
Willamette River above Portland and Yamhill River, Oreg.-----	3,067	2,877	3,948	4,290	4,065	4,604
Illinois Waterway, Ill.-----	5,729	6,591	16,421	21,363	26,929	27,333
Mississippi River, Minneapolis, Minn., to the Passes.-----	32,372	43,969	66,923	94,042	128,348	157,807
Allegheny River, Pa.-----	3,929	2,416	3,594	4,633	3,833	4,747
Monongahela River, Pa. and W. Va.-----	29,560	29,556	28,510	37,618	29,533	31,878
Kanawha River, W. Va.-----	4,499	4,499	6,388	7,644	10,080	11,785
Ohio River, Pittsburgh to mouth-----	29,549	33,868	48,598	71,461	79,478	88,828
Cumberland River, Tenn. and Ky.-----	852	814	1,647	2,878	2,815	3,875
Tennessee River, Tenn., Ala., and Ky.-----	2,207	2,163	3,051	9,975	12,441	14,433
FEDERAL CANALS AND CONNECTING CHANNELS						
Cape Cod Canal, Mass.-----	7,901	14,684	13,626	13,388	12,135	10,753
Inland Waterway from Delaware River to Chesapeake Bay, Del. and Md.-----	3,795	3,690	7,298	9,151	8,899	10,520
Lake Charles Deep Water Channel, La.-----	8,601	10,288	12,164	14,901	19,483	25,205
Gulf Intracoastal Waterway, Apalachee Bay, Fla., to the Mexican border-----	11,643	23,045	31,520	41,379	54,948	67,320
Sabine-Neches Waterway, Tex.-----	38,433	20,318	48,385	56,234	68,093	77,062
Port Aransas (Aransas Pass) Corpus Christi Waterway, Tex.-----	14,180	13,074	21,132	24,330	24,840	28,045
Detroit River, Mich.-----	18,294	127,045	127,292	132,507	111,165	107,194
St. Marys Falls Canal, Mich. and Ontario, Canada-----	89,360	112,983	106,140	114,649	91,420	84,997
Grays Reef Passage, Mich.-----	5,962	4,905	6,045	5,399	5,230	6,312
STATE CANALS						
New York State Barge Canal-----	4,768	2,969	4,616	4,616	3,415	3,226
Innerharbor Navigation Canal, La.-----	2,687	1,430	2,338	3,834	6,004	6,240

¹ Excludes waste material shipped from Hudson River, N. Y., and disposed of at sea or elsewhere, as follows: 1955, 43,325 tons; 1962, 3,201 tons; 1963, 85,925 tons.

² Reported as "Cape Fear River at and below Wilmington, N. C."

Source of tables 854 and 855: Dept. of the Army, Corps of Engineers; through 1950, *Annual Report of the Chief of Engineers*, Part 2; thereafter, *Waterborne Commerce of the United States*.

No. 856. COMMERCIAL TRAFFIC THROUGH THE PANAMA CANAL, 1940 TO 1964, AND BY NATIONALITY OF VESSEL, 1964

[For years ending June 30. Comprises oceangoing tolls-paying vessels and foreign naval vessels of 300 net tons and over (Panama Canal measurement) for vessels rated on net tonnage, or 500 tons displacement and over for vessels rated on displacement tonnage. See also *Historical Statistics, Colonial Times to 1967*, series Q 235-237]

YEAR	Number of transits	Net tonnage ¹ (1,000)	Tolls (\$1,000)	Tons of cargo (1,000 long tons)	NATIONALITY OF VESSEL, 1964	Number of transits	Net tonnage ¹ (1,000)	Tolls (\$1,000)	Tons of cargo (1,000 long tons)
1940.....	5,370	24,144	21,145	27,299	Belgium.....	51	292	240	233
1941.....	4,727	20,643	18,158	24,951	Chile.....	131	795	710	941
1942.....	2,688	11,010	9,752	13,807	China (Taiwan).....	73	468	420	585
1943.....	1,822	8,234	7,357	10,600	Colombia.....	287	977	879	878
1944.....	1,602	6,073	5,466	7,003	Denmark.....	280	1,735	1,531	1,668
1945.....	1,939	8,381	7,244	8,604	France.....	167	844	763	695
1946.....	3,747	17,517	14,774	14,978	Germany.....	1,105	4,635	4,029	3,341
1947.....	4,260	20,233	17,597	21,671	Great Britain.....	1,355	9,144	8,035	8,521
1948.....	4,678	22,902	19,957	24,118	Greece.....	597	4,318	3,780	6,129
1949.....	4,793	23,473	20,541	25,305	Honduras.....	269	402	333	176
1950.....	5,448	28,013	24,430	28,872	Israel.....	64	275	238	280
1951.....	5,593	27,180	23,906	30,073	Italy.....	180	1,307	1,159	1,035
1952.....	6,524	30,674	26,922	33,611	Japan.....	818	4,853	4,353	4,735
1953.....	7,410	36,679	31,918	38,095	Lebanon.....	45	238	210	376
1954.....	7,784	38,028	33,248	39,095	Liberia.....	914	7,118	6,111	10,068
1955.....	7,997	38,568	33,849	40,646	Mexico.....	43	57	58	60
1956.....	8,209	41,203	36,154	45,119	Netherlands.....	754	3,167	2,752	2,855
1957.....	8,570	43,628	38,444	49,702	Nicaragua.....	73	180	162	110
1958.....	9,187	47,924	41,796	48,125	Norway.....	1,476	10,505	9,141	11,775
1959.....	9,718	52,164	45,529	51,153	Panama.....	548	1,658	1,400	1,840
1960.....	10,795	58,302	50,939	59,258	Peru.....	138	532	483	608
1961.....	10,866	61,826	54,128	63,670	Philippines.....	70	470	422	272
1962.....	11,149	65,379	57,290	67,525	Sweden.....	411	2,593	2,292	2,862
1963.....	11,017	64,438	56,308	62,247	Switzerland.....	85	146	122	75
1964.....	11,808	69,633	61,098	70,550	United States.....	1,695	12,035	10,694	10,571
					All other.....	599	894	781	794

¹ Panama Canal net.

Source: Panama Canal Company; *Annual Report*.

No. 857. ORIGIN AND DESTINATION OF CARGO THROUGH PANAMA CANAL: 1964

[In thousands of long tons, except percent. For year ending June 30]

ORIGIN	DESTINATION							
	Pacific-bound		North America		South America		Oceania	Asia
	Total	Percent	Total	U.S.	Total	Chile		
Atlantic coast.....	38,901	100.0	10,180	6,928	4,816	2,090	2,857	21,048
Percent.....	(X)	100.0	26.2	17.8	12.4	5.4	7.3	64.1
North America ¹	29,102	74.8	5,157	3,662	2,677	1,415	1,637	19,631
United States.....	23,090	59.4	2,606	2,268	1,612	665	1,069	17,802
Canada.....	902	2.3	60	18	34	9	187	621
West Indies.....	4,547	11.7	2,098	1,324	1,016	733	269	1,164
South America.....	6,133	15.8	3,357	2,240	1,150	388	325	1,301
Europe.....	3,421	8.8	1,457	870	976	274	879	109
Asia.....	7	(Z)	6	6	-	-	-	1
Africa.....	237	0.6	203	151	13	13	15	6

ORIGIN	DESTINATION						
	Atlantic-bound		North America		South America	Europe	Middle East
	Total	Percent	Total	U.S.			
Pacific coast.....	31,649	100.0	16,716	15,379	693	13,862	60
Percent.....	(X)	100.0	52.8	48.6	2.2	43.8	0.2
North America ¹	13,316	42.1	6,140	5,627	418	8,407	45
United States ²	7,103	22.4	4,133	3,820	179	2,665	17
Canada.....	6,123	19.2	1,369	1,255	194	3,333	28
South America.....	11,860	37.5	5,706	5,419	32	6,097	15
Oceania.....	2,329	7.4	1,028	781	22	1,279	-
Asia.....	4,144	13.1	3,841	3,551	221	80	-

- Entry represents zero. X Not applicable. Z Less than 0.05 percent.

¹ Includes countries not shown separately. ² Includes Alaska and Hawaii.

Source: Panama Canal Company; *Annual Report*.

No. 858. VESSELS ENTERED AND CLEARED IN FOREIGN TRADE—NET REGISTERED TONNAGE, CUSTOMS DISTRICTS: 1955 to 1964

[In thousands of net tons. Excludes domestic trade]

CUSTOMS DISTRICT AND TONNAGE	1955	1958	1959	1960	1961	1962	1963	1964
ENTERED								
North Atlantic Coast.....	71,159	79,266	76,304	75,829	75,032	80,068	83,564	85,178
With cargo.....	57,844	65,028	68,870	66,589	64,879	69,143	70,101	72,875
South Atlantic Coast.....	6,000	7,350	8,586	8,827	8,307	9,060	9,053	11,224
With cargo.....	5,292	6,688	7,845	7,808	7,303	8,099	8,465	9,038
Gulf Coast.....	17,434	22,233	22,532	27,022	30,237	32,224	32,459	36,674
With cargo.....	11,795	15,409	15,822	15,616	15,661	16,886	16,399	17,340
South Pacific Coast.....	9,582	13,391	15,277	17,148	18,200	18,654	17,736	19,206
With cargo.....	7,547	11,415	13,477	15,007	15,332	16,675	15,369	16,500
North Pacific Coast.....	6,385	8,235	9,154	10,133	9,851	9,861	11,570	11,692
With cargo.....	4,365	6,105	7,089	7,551	6,981	7,152	7,729	7,742
Great Lakes.....	14,597	12,806	16,369	16,937	17,503	19,728	21,577	24,705
With cargo.....	4,631	4,590	8,133	7,771	7,825	9,761	10,748	13,948
Puerto Rico, Alaska, Hawaii, and V.I.....	3,247	5,817	5,992	6,869	7,326	8,739	9,842	10,650
With cargo.....	2,678	4,976	5,267	5,968	6,369	7,340	7,991	3,304
CLEARED								
North Atlantic Coast.....	71,240	79,032	76,023	80,842	79,127	83,496	86,874	91,464
With cargo.....	58,903	69,982	65,216	65,510	66,964	67,868	69,296	69,781
South Atlantic Coast.....	5,846	7,135	7,415	8,012	8,759	9,275	9,726	10,908
With cargo.....	3,635	4,444	4,582	5,121	5,302	5,227	5,249	5,766
Gulf Coast.....	17,289	22,240	24,109	25,218	27,235	29,823	30,200	33,959
With cargo.....	13,820	16,287	17,963	18,825	20,385	22,825	23,501	28,192
South Pacific Coast.....	11,172	14,226	15,502	18,007	18,616	18,843	18,263	19,744
With cargo.....	10,693	11,381	12,765	14,602	14,486	14,127	14,446	14,495
North Pacific Coast.....	5,060	7,123	8,367	9,444	9,473	9,180	11,158	10,873
With cargo.....	4,130	5,189	5,946	6,923	7,415	7,068	8,699	8,068
Great Lakes.....	14,661	12,714	16,244	16,937	17,683	19,623	21,434	24,626
With cargo.....	11,831	10,366	11,882	13,106	13,791	15,020	16,730	17,454
Puerto Rico, Alaska, Hawaii, and V.I.....	4,200	6,346	6,946	7,654	8,085	8,714	9,882	10,703
With cargo.....	3,077	3,741	3,736	3,491	3,663	3,920	4,591	4,921

No. 859. VESSELS ENTERED AND CLEARED IN FOREIGN TRADE—NET REGISTERED TONNAGE, BY FLAG OF CARRIER VESSEL: 1941 to 1964

[In thousands of net tons, except number of vessels and percent. Includes Alaska, Hawaii, Puerto Rico, and Virgin Islands. Excludes domestic trade. See also *Historical Statistics, Colonial Times to 1967*, series Q 192-203]

YEARLY AVERAGE OR YEAR	ALL PORTS					SEAPORTS ¹					
	Number of vessels	All vessels			Percent U.S.	All vessels			With cargo		
		Total tonnage	U.S.	Foreign		Total tonnage	U.S.	Foreign	Total tonnage	U.S.	Foreign
ENTERED											
1941-1945.....	38,997	67,994	34,058	33,336	51.0	52,620	30,059	22,560	28,995	16,877	12,118
1946-1950.....	48,813	87,462	46,205	41,257	52.8	75,094	42,168	32,926	50,288	26,318	23,970
1951-1955.....	48,082	114,990	39,459	75,531	34.3	100,657	35,345	65,313	78,407	26,769	51,649
1956-1960.....	51,874	155,368	31,118	124,251	20.0	139,375	26,938	112,436	110,023	21,884	88,139
1955.....	48,415	128,405	34,321	94,084	26.7	113,807	30,407	83,400	89,552	25,331	64,220
1959.....	51,237	164,213	26,417	127,796	17.1	137,845	21,897	115,947	118,370	18,510	69,860
1960.....	51,375	162,785	30,189	132,575	18.5	145,828	26,708	119,119	118,539	19,955	68,584
1961.....	47,828	166,548	31,144	135,404	18.7	148,955	28,266	120,688	116,525	18,779	67,740
1962.....	49,515	178,334	33,774	144,560	18.9	158,066	29,663	128,404	125,297	19,978	105,319
1963.....	48,654	186,700	33,300	153,400	17.8	165,124	29,677	135,447	126,054	18,928	107,126
1964.....	50,998	199,330	34,956	164,373	17.5	174,625	30,909	143,715	132,257	19,001	113,266
CLEARED											
1941-1945.....	38,195	71,792	37,283	34,509	51.0	56,304	32,585	23,718	45,147	26,377	18,770
1946-1950.....	45,135	87,190	44,942	42,244	51.5	74,889	40,933	33,953	54,584	29,510	25,073
1951-1955.....	45,324	116,447	39,533	76,914	34.2	101,213	35,531	65,682	68,396	25,407	42,989
1956-1960.....	49,079	156,376	31,157	125,219	19.9	140,498	27,018	113,478	85,273	19,791	65,481
1955.....	46,642	129,368	34,407	94,961	26.6	114,806	30,015	84,792	73,663	20,763	52,900
1959.....	49,608	155,505	26,623	128,883	17.1	139,262	22,042	117,221	80,208	18,269	61,936
1960.....	49,809	166,715	31,280	135,434	18.8	149,778	27,649	122,127	84,470	18,653	65,817
1961.....	46,354	168,878	31,941	136,936	18.9	161,295	29,062	122,233	87,273	18,952	68,321
1962.....	47,837	178,953	34,165	144,788	19.1	159,330	30,337	128,992	91,036	19,648	71,388
1963.....	46,882	187,539	34,106	153,433	18.2	166,103	30,440	135,663	96,822	20,838	75,986
1964.....	49,036	202,262	35,337	166,924	17.5	177,636	31,409	146,225	101,212	21,501	79,711

¹ Comprises all ports except Great Lakes ports.

Source of tables 858 and 859: Dept. of Commerce, Bureau of the Census; *Foreign Commerce and Navigation of the United States*, and current summary reports, FT 975, *Vessel Entrances and Clearances*.

No. 860. EMPLOYEES IN GOVERNMENT AND PRIVATE SHIPYARDS: 1940 TO 1964

[In thousands. Beginning 1959, includes Alaska and Hawaii. Annual average employment in establishments primarily engaged in building and repairing all types of ships, barges, canal boats, and lighters of 5 gross tons and over, whether propelled by sail or motor power or towed by other craft]

YEAR	Total	Private yards ¹	Navy yards ¹	YEAR	Total	Private yards ¹	Navy yards ¹
1940.....	180	103	78	1957.....	225	127	98
1945.....	1,034	742	292	1958.....	218	123	95
1950.....	146	72	74	1959.....	211	118	93
1952.....	268	134	133	1960.....	204	112	92
1953.....	255	131	124	1961.....	211	116	95
1954.....	218	108	110	1962.....	210	115	94
1955.....	208	101	107	1963.....	206	116	90
1956.....	212	110	102	1964.....	202	118	84

¹ Includes all full- and part-time employees who worked during or received pay for any part of the pay period which includes the 12th of the month. Data have been adjusted to March 1963 benchmark levels indicated by data from Government social insurance programs.

² Includes Curtis Bay Coast Guard yard (Md.).

Source: Dept. of Labor, Bureau of Labor Statistics. Current data for private yards published monthly in *Employment and Earnings*.

No. 861. EMPLOYMENT ON U.S. FLAG MERCHANT VESSELS: 1935 TO 1964

[As of June 30, except as indicated. Estimates of personnel employed on U.S. merchant ships, 1,000 gross tons and over. Excludes vessels on inland waterways, Great Lakes, and those owned by, or operated for, the United States Army and Navy, and special types such as cable ships, tugs, etc.]

DATE	Employment	DATE	Employment	DATE	Employment
1935.....	56,150	1950.....	61,550	1961.....	130,930
1940.....	49,810	1951.....	84,300	1962.....	47,348
1941.....	51,280	1952.....	79,650	1963—Mar. 31.....	47,771
1942.....	47,410	1953.....	72,750	June 30.....	47,998
1943—June 20.....	75,000	1954.....	63,850	Sept. 30.....	46,733
1944—June 20.....	125,290	1955.....	57,507	Dec. 31.....	47,236
1945—June 20.....	158,860	1956.....	57,192	1964—Mar. 31.....	47,779
1946—June 20.....	120,050	1957.....	61,059	June 30.....	47,979
1947—Dec. 20.....	110,820	1958.....	51,515	Sept. 30.....	47,742
1948.....	80,250	1959.....	50,223	Dec. 31.....	47,072
1949.....	71,970	1960.....	49,153		

¹ Employment affected by maritime strike, Atlantic, Gulf, and Pacific Coast ports.

Source: Dept. of Commerce, Maritime Administration; unpublished data.

No. 862. BASIC WAGE SCALE FOR ABLE-BODIED SEAMEN: 1935 TO 1965

[Represents basic wage, over and above subsistence (board and room), paid to seamen having qualifying experience and employed on U.S. flag merchant vessels. Excludes overtime and fringe pay benefits]

MONTH ESTABLISHED	Monthly wage rate	AREA AND MONTH ESTABLISHED	Monthly wage rate	AREA AND MONTH ESTABLISHED	Monthly wage rate
In effect, Jan. 1, 1935.....	\$55.00	EAST COAST ¹		WEST COAST ¹	
1940—January.....	72.50	1953—June.....	\$314.41	1953—June.....	\$314.41
1941—February.....	90.00	1956—June.....	333.27	1954—October.....	302.00
1942—January.....	100.00	1957—June.....	353.27	1955—November.....	423.00
1945—October.....	145.00	1960—January.....	369.17	1956—October.....	453.00
1946—April.....	162.50	1961—June.....	383.94	1957—October.....	478.00
June.....	172.50	1962—June.....	392.58	1960—October.....	511.50
1947—February.....	182.85	In effect Jan. 1, 1965.....	392.58	1961—October.....	521.50
October.....	197.50			In effect Jan. 1, 1965.....	521.50
1948—March.....	210.00				
December.....	226.00				
1950—September.....	248.50				
1951—October.....	288.00				
1952—April.....	302.40				

¹ Seamen on both coasts receive extra pay for Saturdays and Sundays at sea. Beginning November 1955, West Coast incorporated this extra pay into base wages but East Coast did not.

Source: Dept. of Commerce, Maritime Administration; unpublished data.

No. 863. UNITED STATES FLAG MERCHANT VESSELS, STEAM AND MOTOR: 1940 TO 1964

[Dead-weight tonnage in thousands. As of June 30, except as indicated. Covers seagoing vessels of 1,000 gross tons and over engaged in foreign and domestic trade, and inactive vessels. Excludes special types and vessels employed on Great Lakes]

YEAR AND TYPE OF VESSEL	ALL VESSELS		ACTIVE VESSELS										TEMPORARILY INACTIVE		RESERVE FLEET		SPECIAL SERVICE			
	Num- ber	Tons	Total		Foreign trade		Domestic trade						Num- ber	Tons	Num- ber	Tons	Num- ber	Tons		
			Num- ber	Tons	Num- ber	Tons	Coastwise		Intercoastal		Noncontiguous									
							Num- ber	Tons	Num- ber	Tons	Num- ber	Tons							Num- ber	Tons
1940	1,300	11,019	1,118	9,643	425	3,749	693	5,893	500	4,172	122	1,189	71	532	181	1,367	-	-	1	10
Combination	140	6,873	112	696	66	514	46	139	36	120	1	8	9	45	28	176	-	-	-	-
Cargo	790	6,020	641	4,832	291	2,443	380	2,438	188	988	109	1,033	53	417	148	1,129	-	-	1	10
Tanker	370	4,126	365	4,065	68	731	297	3,273	297	3,054	12	148	9	70	5	62	-	-	-	-
1946 (Sept. 30)	4,852	50,263	2,332	25,399	1,990	20,592	442	4,807	297	3,480	54	563	91	757	533	4,998	1,557	16,138	430	3,728
Combination	117	80,800	25	15	15	127	10	38	-	-	-	-	10	38	28	175	33	213	31	247
Cargo	3,829	38,675	1,833	18,110	1,607	16,200	226	1,910	101	728	53	561	72	617	450	4,198	1,159	11,069	387	3,268
Tanker	906	12,785	474	7,122	268	4,264	206	2,888	106	2,751	1	-	9	101	55	624	365	4,866	12	183
1950	3,408	36,526	1,145	13,828	711	8,353	434	5,474	279	3,716	87	1,131	63	636	86	845	2,177	21,853	-	-
Combination	83	639	51	417	45	359	6	28	-	-	-	-	6	28	4	27	28	195	-	-
Cargo	2,846	28,927	682	7,073	503	5,367	177	1,708	66	559	58	649	53	500	42	384	2,122	21,468	-	-
Tanker	479	6,959	412	6,335	161	2,597	251	3,737	29	482	9	98	9	98	40	494	27	190	-	-
1955	3,235	35,017	1,026	12,872	601	6,992	425	5,880	271	3,999	75	996	79	885	89	1,009	1,983	19,687	137	1,360
Combination	249	1,687	40	371	30	361	1	10	10	-	-	-	1	10	14	68	185	1,166	10	82
Cargo	2,560	26,539	652	7,033	492	5,383	160	1,650	43	385	52	591	65	674	28	288	1,760	18,070	120	1,149
Tanker	426	6,790	334	5,468	70	1,248	264	4,220	228	3,614	23	405	13	201	47	742	38	451	7	129
1960	2,960	32,821	930	12,467	558	6,541	372	5,926	237	4,284	50	717	85	925	99	1,400	1,884	18,279	47	675
Combination	306	2,044	36	310	34	305	2	14	-	-	-	-	2	14	4	4	31	1,686	1	6
Cargo	2,226	23,015	627	6,854	479	5,265	148	1,583	35	375	39	442	74	773	35	376	1,536	15,530	28	255
Tanker	428	7,762	267	5,295	45	972	222	4,323	202	3,810	11	275	9	133	60	993	83	1,062	18	414
1964	2,538	30,084	879	12,775	534	7,271	295	5,504	184	3,964	36	674	75	866	74	1,098	1,584	15,121	61	1,093
Combination	271	1,787	33	294	32	290	1	4	-	-	-	-	1	4	1	7	235	1,473	2	13
Cargo	1,959	20,612	609	7,108	509	5,971	100	1,137	19	220	21	263	60	655	43	508	1,274	12,613	33	385
Tanker	1,988	7,685	237	5,372	43	1,010	194	4,362	165	3,744	15	411	14	207	30	553	75	1,035	26	695

of 1,124,000 tons; 1960, 237 ships of 1,427,000 tons; 1964, 227 ships of 1,400,100 tons.

- Entry represents zero.
 1 Includes ships originally constructed as cargo ships but converted to transports, hospital ships, etc., previously included in cargo classification as follows: 1955, 181 ships

Source: Dept. of Commerce, Maritime Administration; unpublished data.

Merchant Vessels

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No. 864. MERCHANT VESSELS COMPLETED BY U.S. SHIPYARDS: 1930 TO 1964
Tons in thousands. Represents self-propelled steel vessels of 2,000 gross tons and over. Excludes Alaska and Hawaii]

YEAR	ALL MERCHANT VESSELS		PASSENGER-CARGO/TRANSPORT			CARGO			TANKER		
	Number	Gross tons	Number	Gross tons	Dead-weight tons	Number	Gross tons	Dead-weight tons	Number	Gross tons	Dead-weight tons
1930-----	18	164	5	50	39	2	16	24	11	97	161
1935-----	2	19	-	-	-	-	-	-	2	19	30
1940-----	53	445	6	69	61	31	227	335	16	149	238
1941-----	95	749	6	58	57	61	423	508	28	268	434
1942-----	724	5,393	11	102	81	652	4,679	6,843	61	612	982
1943-----	1,661	12,486	20	220	180	1,410	10,103	14,921	231	2,163	3,420
1944-----	1,463	11,403	48	461	330	1,175	8,455	11,858	240	2,486	3,955
1945-----	1,041	7,615	46	500	311	807	5,336	7,206	188	1,770	2,787
1950-----	26	405	-	-	-	3	27	44	23	378	609
1955-----	9	119	-	-	-	7	84	95	2	35	55
1959-----	30	714	1	5	1	3	40	73	26	668	1,095
1960-----	26	410	-	-	-	15	134	163	11	276	456
1961-----	25	369	-	-	-	18	190	224	7	179	298
1962-----	27	392	1	14	10	23	265	303	3	113	186
1963-----	35	418	6	51	31	23	250	289	6	117	200
1964-----	15	213	1	14	9	10	104	123	4	95	166

- Entry represents zero.

Source: American Bureau of Shipping, New York, N.Y. Annually in *The Bulletin*.

No. 865. SHIPBUILDING IN PRIVATE SHIPYARDS—SUMMARY: 1950 TO 1964

[Tons in thousands: Gross tons for commercial vessels, light displacement tons for naval vessels. Includes Alaska and Hawaii. Covers steel vessels of 1,000 tons or over]

ITEM	1950		1960		1962		1963		1964	
	Number	Tons	Number	Tons	Number	Tons	Number	Tons	Number	Tons
COMMERCIAL VESSELS										
Under construction, Jan. 1 ¹ -----	39	636	60	979	66	859	54	648	45	517
Contracted for-----	16	181	23	270	15	174	25	291	18	244
Launched-----	26	422	31	471	37	439	18	261	20	239
Delivered-----	26	415	25	404	27	385	34	422	16	223
Under construction, Dec. 31-----	29	401	58	844	54	648	45	517	47	538
NAVAL VESSELS										
Under construction, Jan. 1 ¹ -----	11	42	52	334	67	362	71	383	83	450
Contracted for-----	-	-	19	115	19	99	29	143	39	195
Launched-----	-	-	16	170	18	79	23	125	22	133
Delivered-----	-	-	12	39	15	76	17	81	21	108
Under construction, Dec. 31-----	11	42	59	410	71	385	83	450	101	637

- Entry represents zero. ¹ Excludes vessels cancelled during year. ² Tonnages revised.

Source: Shipbuilders Council of America, Washington, D.C.; *Annual Report*, and unpublished data.

No. 866. VESSELS REPAIRED OR CONVERTED IN PRIVATE SHIPBUILDING AND SHIP REPAIR YARDS: 1950 TO 1964

[Includes Alaska and Hawaii]

YEAR	TOTAL		VESSELS UNDER 1,000 GROSS TONS		VESSELS OVER 1,000 GROSS TONS	
	Yards reporting ¹	Vessels	Yards reporting	Vessels	Yards reporting	Vessels
1950-----	118	33,287	111	17,993	80	15,294
1955-----	144	35,413	130	21,122	89	14,291
1958-----	154	42,809	134	28,331	88	14,478
1959-----	149	37,501	130	24,537	87	12,664
1960-----	159	37,774	132	24,991	93	12,783
1961-----	122	36,816	106	26,027	73	10,789
1962-----	151	42,086	137	29,812	95	12,774
1963-----	139	39,990	129	27,804	102	12,186
1964-----	143	36,422	130	26,177	91	10,245

¹ Not additive.

Source: Shipbuilders Council of America, Washington, D.C.; *Annual Report*, and unpublished data.

No. 867. U.S. MERCHANT MARINE—SUMMARY: 1930 TO 1964

As of June 30 for 1930 to 1940; January 1, thereafter. Includes Alaska, Hawaii, Puerto Rico, Guam, and Virgin Islands. Covers documented vessels of 5 net tons or more. See also *Historical Statistics, Colonial Times to 1937*, series Q 153-174]

YEAR	NUMBER OF VESSELS			GROSS TONNAGE OF VESSELS (1,000)						
	Total	Steam and motor	All other	Total	Major class			Material of which built		Type of trade in which engaged ¹
					Steam and motor	Sailing	Un-rigged ¹	Wood	Other ²	
1930.....	25,214	18,211	7,003	16,068	13,757	757	1,554	2,554	13,514	6,266
1935.....	24,919	18,495	6,424	14,654	12,535	441	1,677	2,185	12,469	4,560
1940.....	27,212	19,504	7,708	14,018	11,353	200	2,460	2,329	11,393	3,638
1945.....	29,797	22,772	7,025	32,813	30,247	115	2,452	1,915	30,898	26,043
1950.....	36,083	28,793	7,290	31,215	28,327	82	2,808	1,952	29,283	19,154
1955.....	39,242	31,882	7,360	29,958	26,792	40	3,125	1,622	28,336	18,143
1958.....	41,276	32,988	8,288	28,581	24,599	23	3,965	1,469	27,118	16,205
1960.....	42,409	33,506	8,903	28,895	24,338	23	4,539	1,425	27,470	15,600
1960.....	43,088	33,640	9,448	28,581	23,553	23	5,005	1,397	27,184	14,737
1961.....	43,367	33,766	9,601	26,403	21,175	18	5,210	1,375	25,028	13,126
1962.....	43,566	33,852	9,714	25,466	20,076	18	5,362	1,340	24,107	12,393
1963.....	44,077	34,004	10,073	25,691	20,079	18	5,595	1,314	24,377	12,289
1964.....	44,669	34,187	10,502	26,160	20,018	17	6,125	1,280	24,900	12,580

AREA OF LOCATION	NUMBER OF VESSELS					GROSS TONNAGE OF VESSELS (1,000)				
	1950	1955	1960	1963	1964	1950	1955	1960	1963	1964
Total.....	36,083	39,242	43,088	44,077	44,669	31,215	29,958	28,581	25,691	26,160
Atlantic and Gulf.....	21,823	23,355	24,963	24,642	25,651	20,420	20,402	18,926	16,547	17,077
Pacific.....	10,066	10,687	10,828	10,870	10,934	8,446	7,004	5,782	4,537	4,405
Northern lakes.....	2,026	2,005	1,950	1,962	1,973	1,628	1,590	1,728	1,832	1,858
Western rivers.....	2,368	3,195	5,347	6,603	6,111	721	962	2,145	2,076	2,820

¹ Vessels having no propelling power of their own.

² Comprises iron, steel, composite, concrete, and aluminum. Beginning 1961, includes plastic (fiberglass).

³ Excludes vessels engaged in whale, cod, and mackerel fisheries.

Source: Treasury Dept., Bureau of Customs; annual report, *Merchant Marine Statistics*.

No. 868. U.S. MERCHANT MARINE—VESSELS, BY YEAR BUILT: 1964

[As of January 1. Includes Alaska, Hawaii, Puerto Rico, Guam, and Virgin Islands. Covers documented vessels of 5 net tons or more]

PERIOD BUILT	Number	Gross tons	YEAR BUILT	Number	Gross tons	YEAR BUILT	Number	Gross tons
Total.....	44,669	26,159,784	1941.....	802	406,028	1953.....	1,257	642,283
Unknown.....	565	40,209	1942.....	1,237	1,495,894	1954.....	1,245	585,990
1849-1900.....	504	121,464	1943.....	1,705	3,099,337	1955.....	1,263	440,880
1901-1905.....	390	223,490	1944.....	2,057	3,815,782	1956.....	1,676	479,809
1906-1910.....	673	674,068	1945.....	1,775	3,905,870	1957.....	1,809	680,676
1911-1915.....	1,004	242,230	1946.....	1,427	600,812			
1916-1920.....	1,302	330,580	1947.....	1,335	286,990	1958.....	1,501	839,551
1921-1925.....	1,511	378,632	1948.....	1,245	243,683	1959.....	1,383	840,150
1926-1930.....	2,879	561,408	1949.....	1,069	199,694	1960.....	1,118	673,755
1931-1935.....	1,745	200,769	1950.....	957	210,153	1961.....	1,005	666,175
1936-1940.....	3,460	718,500	1951.....	1,056	331,137	1962.....	1,266	859,893
			1952.....	1,054	450,502	1963.....	1,365	942,809

Source: Treasury Dept., Bureau of Customs; annual report, *Merchant Marine Statistics*.

No. 869. U.S. MERCHANT MARINE—NUMBER AND GROSS TONNAGE OF VESSELS, BY TONNAGE GROUP: 1964

[As of January 1. Includes Alaska, Hawaii, Puerto Rico, Guam, and Virgin Islands. Covers documented vessels of 5 net tons or more]

TONNAGE GROUP	ALL VESSELS		STEAM		MOTOR		SAILING		UNRIGGED ¹	
	Number	Gross tons (1,000)	Number	Gross tons (1,000)	Number	Gross tons (1,000)	Number	Gross tons (1,000)	Number	Gross tons (1,000)
Total	44,669	26,160	2,257	17,896	31,910	2,122	155	17	10,347	6,125
5 to 49 tons.....	25,943	470	15	(Z)	25,141	449	136	2	651	19
50 to 99 tons.....	4,179	291	24	2	3,715	257	5	(Z)	435	32
100 to 499 tons.....	6,385	1,922	131	33	2,580	527	6	2	4,118	1,360
500 to 999 tons.....	4,398	3,195	42	31	228	149	4	3	4,126	3,012
1,000 to 4,499 tons.....	1,353	2,489	133	412	214	465	4	9	1,002	1,602
5,000 to 9,999 tons.....	1,501	11,260	1,457	10,948	29	213	—	—	15	99
10,000 to 19,999 tons.....	412	5,296	407	5,235	5	62	—	—	—	—
20,000 tons and over.....	48	1,236	48	1,236	—	—	—	—	—	—

— Entry represents zero.

Z Less than 500 gross tons.

¹ Vessels having no propelling power of their own.

Source: Treasury Dept., Bureau of Customs; annual report, *Merchant Marine Statistics*.

No. 870. U.S. MERCHANT MARINE—GROSS TONNAGE OF VESSELS BUILT AND REMOVED: 1940 TO 1963

[Includes Alaska, Hawaii, Puerto Rico, Guam, and Virgin Islands. Covers documented vessels of 5 net tons or more. Vessels may be added to merchant marine by way of redocumentation. However, figures are available only for vessels documented. See also *Historical Statistics, Colonial Times to 1857*, series Q 178-182]

YEAR	VESSELS BUILT AND DOCUMENTED				GROSS TONNAGE OF VESSELS REMOVED (1,000)				
	Number	Gross tonnage (1,000)			Total	Lost and abandoned	Sold to aliens ²	Out of documentation	All other
		Total ¹	Steam and motor	Un-rigged ³					
1940.....	705	447	386	61	1,697	274	1,114	62	246
1945.....	1,744	6,314	6,269	55	901	138	75	42	846
1950.....	861	194	103	91	1,238	163	488	411	176
1955.....	1,116	400	117	283	866	63	418	208	176
1956.....	1,385	446	152	293	890	60	274	435	122
1957.....	1,582	535	249	335	1,625	33	579	728	285
1958.....	1,390	837	406	431	961	35	87	694	144
1959.....	1,180	792	386	406	1,448	58	60	1,264	75
1960.....	949	629	352	277	3,065	55	249	2,585	175
1961.....	877	620	389	231	1,966	54	456	1,260	195
1962.....	1,175	821	420	402	947	45	261	322	319
1963.....	1,365	943	460	482	801	59	234	180	327

¹ Includes small amount of tonnage for sailing vessels for certain years.

² Vessels having no propelling power of their own.

³ Beginning 1955, sold or transferred to aliens.

⁴ Includes 1 nuclear steam screw of 13,559 gross tons.

Source: Treasury Dept., Bureau of Customs; annual report, *Merchant Marine Statistics*.

No. 871. MERCHANT VESSELS LAUNCHED AND OWNED—WORLD AND UNITED STATES: 1935 to 1964

[Vessels of 100 gross tons and over. Includes Alaska and Hawaii. Beginning 1946, excludes sailing ships, non-propelled craft, and all ships built of wood]

YEAR	WORLD				UNITED STATES			
	Launched		Owned		Launched		Owned	
	Number	Gross tons (1,000)	Number	Gross tons (1,000)	Number	Gross tons (1,000)	Number	Gross tons (1,000)
1935	¹ 1,040	² 2,595	30,979	64,886	¹ 117	² 244	3,585	12,773
1940	495	1,754	(²)	(²)	167	679	(²)	(²)
1945	1,311	7,189	(²)	(²)	880	5,968	(²)	(²)
1950	990	3,489	27,922	83,996	51	437	4,531	27,404
1955	1,437	5,315	29,967	100,069	26	73	4,225	20,343
1959	1,808	8,746	33,924	124,494	47	597	3,964	25,227
1960	2,020	8,367	34,056	129,339	60	485	3,845	24,781
1961	1,990	7,940	35,465	135,477	56	343	3,728	24,184
1962	1,901	8,375	36,364	139,549	90	449	3,542	23,220
1963	2,001	8,539	37,310	145,438	78	294	3,506	23,082
1964	2,147	10,264	38,602	152,564	80	276	3,344	22,380

¹ 1935-1939 average. ² Not recorded.

Source: Lloyd's Register of Shipping, London; *Statistical Tables*.

No. 872. MERCHANT FLEETS OF THE WORLD, BY TYPE OF VESSEL AND COUNTRY OF REGISTRATION: 1962

[Vessels of 1,000 gross tons and over. As of December 31. Specified countries have 100 or more ships]

COUNTRY OF REGISTRY	TOTAL		COMBINATION PASSENGER AND CARGO		FREIGHTERS		BULK CARRIERS ¹		TANKERS	
	Number	Average age (years)	Number	Average age (years)	Number	Average age (years)	Number	Average age (years)	Number	Average age (years)
World total	17,861	13.6	1,213	18.9	11,648	14.7	1,532	9.7	3,468	9.8
United States	2,733	17.4	295	18.1	1,971	17.9	71	17.5	396	14.9
Privately owned	985	15.4	34	15.0	567	15.9	70	17.5	314	14.0
Government-owned	1,748	18.6	261	18.5	1,404	18.6	1	10.0	82	18.4
Foreign	15,128	12.9	918	19.2	9,677	14.0	1,521	9.3	3,012	9.2
Argentina	169	20.0	21	19.6	78	19.6	3	33.0	67	20.1
Australia	105	12.3	7	13.7	57	12.8	40	11.6	1	7.0
Brazil	226	21.7	27	39.0	139	23.6	17	13.8	43	8.1
British Colonies	206	18.5	25	19.5	154	18.4	13	18.8	14	17.0
China (mainland)	165	22.7	21	23.2	109	25.3	18	11.7	17	17.1
Denmark	365	8.8	27	20.4	269	8.4	10	5.9	59	5.6
Finland	237	18.1	6	34.3	185	17.8	20	25.5	28	11.1
France	634	10.2	50	14.2	358	10.6	59	8.0	161	8.8
Germany (West)	883	9.0	22	14.9	760	8.9	63	8.0	48	9.9
Greece	776	16.2	35	25.8	500	15.8	83	12.8	101	10.3
India	170	11.7	12	16.8	153	11.4	1	9.0	4	8.8
Italy	632	17.0	73	18.5	348	20.1	68	10.9	143	11.7
Japan	1,224	8.4	26	14.6	882	9.1	121	5.4	195	6.1
Lebanon	190	24.7	-	(X)	175	24.0	15	32.3	-	(X)
Liberia	806	11.8	6	21.5	330	16.5	123	8.3	347	8.5
Netherlands	555	9.3	59	16.0	368	9.1	25	4.8	103	7.1
Norway	1,896	8.9	25	13.2	705	10.6	170	4.8	496	7.8
Panama	485	20.3	19	29.2	292	24.1	29	19.3	145	11.7
Poland	155	13.3	1	26.0	124	13.5	24	13.0	6	9.0
Spain	344	28.8	43	23.3	224	34.1	18	27.9	59	13.0
Sweden	553	11.5	31	28.8	378	12.8	69	7.9	100	6.9
Turkey	132	24.6	27	24.1	92	26.5	1	17.0	12	11.7
United Kingdom	2,290	9.9	152	15.0	1,326	10.2	281	8.5	531	8.5
U.S.S.R.	1,002	15.5	71	24.3	587	19.5	183	6.0	161	8.2
Yugoslavia	161	14.0	10	18.0	135	14.2	7	10.1	11	9.5
All others ²	1,259	13.9	136	16.4	901	13.5	60	15.4	162	13.4

- Entry represents zero. X Not applicable. ¹ Includes ore carriers and ore/oil carriers.

² Includes the following countries with less than 100 merchant type ships (1,000 gross tons and over) under their registry: Albania, Belgium, Bulgaria, Burma, Canada, Chile, China (Taiwan), Colombia, Costa Rica, Cuba, Czechoslovakia, Dominican Republic, Ecuador, Ethiopia, Germany (East), Ghana, Guatemala, Honduras, Hungary, Iceland, Indonesia, Iran, Iraq, Ireland, Israel, Ivory Coast, Jamaica, Korea, Kuwait, Libya, Malagasy, Malaysia, Mexico, Monaco, Morocco, New Zealand, Nicaragua, Nigeria, Pakistan, Peru, Philippines, Portugal, Romania, Saudi Arabia, Sudan, Switzerland, Thailand, Trinidad-Tobago, Tunisia, South Africa, United Arab Republic, Uruguay, Venezuela, and Viet-Nam.

Source: Dept. of Commerce, Maritime Administration; *A Statistical Analysis of the World's Merchant Fleets*, December 1962.

Section 23

Agriculture—Farms, Land, and Finances

This section presents statistics concerning the basic structure of our agricultural economy. Included are data on farm population; number, acreage, value, and ownership of farms; land utilization, irrigation, drainage, and soil conservation; and farm income, expenditures, debt, and prices. The principal sources of these data are reports issued by the Bureau of the Census, which conducts a Census of Agriculture every 5 years and Censuses of Irrigation and of Drainage every 10 years; the annual *Crop Report and Related Data*, *Federal Reclamation Projects*, issued by the Bureau of Reclamation, Department of the Interior; and current and annual publications of the Department of Agriculture, chief of which are *Report of Administrator of Soil Conservation Service*, *Agricultural Statistics*, *The Farm Income Situation*, and *Farm Real Estate Market Developments*.

Data on farm production, marketings, and imports and exports for crops, livestock, and poultry are in section 24, Agriculture—Production, Marketing, and Trade.

A Census of Agriculture, entailing personal enumeration of individual farms, has been taken every 10 years since 1840 and every 5 years since 1920. The first Census, limited in scope, included such items as numbers of livestock, production of wool, value of poultry and dairy products, and production of principal crops. Data on number, acreage, and value of farms were first obtained in the 1850 Census; on farm tenure, in 1880; and on a detailed classification of farmland by use, in 1925. The 1959 Census of Agriculture is the most recent one for which complete data are available; preliminary results from the 1964 Census will be issued during 1965.

Farms and farmland.—In the course of its history, the Bureau of the Census has used varying definitions of a farm. In the 1959 Census, places of less than 10 acres were counted as farms if estimated sales of agricultural products for the year amounted to at least \$250, and places of 10 or more acres if such sales amounted to at least \$50. In the 1950 and 1954 Censuses, places of 3 or more acres were counted as farms if the annual *value* of agricultural products, whether for home use or for sale, but exclusive of home-garden products, amounted to \$150 or more; places of less than 3 acres were counted as farms only if the annual *sales* amounted to \$150 or more. In the Censuses from 1925 to 1945, farms included places of 3 or more acres having any agricultural production, other than from a home garden, and places of less than 3 acres having agricultural production valued at a minimum of \$250. For definitions used in earlier Censuses, see *U.S. Census of Agriculture: 1959*, Vol. II, Introduction.

Currently included as farms are such agricultural enterprises as nurseries, greenhouses, hothouses, mushroom houses, and cranberry bogs; excluded are fish farms, fish hatcheries, oyster farms, frog farms, fur farms, apiaries, kennels, game preserves, parks, and the like. In the case of landowners who had one or more tenants, renters, croppers, or managers, the land operated by each was counted as a separate farm.

Farmland refers to all land under the control of a farm operator and considered as part of his farm, including land not actually under cultivation or used for pasture or grazing. Rent-free land was included as part of the farm only if the operator had sole use of it. Land used for pasture or grazing that was neither owned nor leased by the farm operator, such as national forests, Taylor grazing land, State or other public lands, and some railroad and other privately owned lands, are not included.

Irrigation.—Irrigated land as defined by the Bureau of the Census is the net acreage of farmland to which irrigation water was applied during the year covered by the enumeration. It excludes land not irrigated during the Census year and also irrigated nonfarm land

In the 18 Western States (Alaska excluded) and Louisiana, the Bureau of the Census collects information at 10-year intervals on acres irrigated, irrigation works, capital investment, etc., from irrigation companies, districts, and other organizations, and from farms that operate their own irrigation works. Irrigation information for other States is generally limited to the regular farm Census. Following the 1954 and 1959 Censuses, a special survey of irrigation was conducted in humid areas.

The development of Federal irrigation projects rests primarily on the Bureau of Reclamation. By Congressional directive its activities are generally confined to the 19 Western States. The operation of irrigation works, upon complete development, is transferred to capable private water user organizations.

Drainage.—Most farmland drainage works serve to reclaim and improve the land. Other purposes are to protect the land against overflow, to rid the land of seepage from irrigation ditches, and to control alkali formation.

The Bureau of the Census in 1950 and 1960 enumerated, in general, only organized enterprises with 500 acres or more of drained farmland. In 1950, smaller irrigation enterprises which had their own drainage works were also included. In previous Censuses (1920 to 1940), all organized enterprises draining farmlands were included regardless of size. Privately drained lands of less than 500 acres have not been enumerated in any drainage Census. The change in procedure for 1950 and 1960 materially reduced the number of enterprises enumerated, but affected very little the amount of drained land enumerated.

Eight of the 48 conterminous States—the 6 New England States, Pennsylvania, and West Virginia—have had no drainage projects reported in any of the Censuses of Drainage. In 1960, Arizona also had no drainage projects that qualified for inclusion.

Soil conservation.—Soil conservation district legislation has been enacted in all 50 States, and in Puerto Rico and the Virgin Islands. A soil conservation district is a political subdivision of a State, determined by petition and referendum of farmers in the area, and approved by the State Soil Conservation Committee. In most cases, districts have authority to solicit Federal, State, county, and private assistance for their soil and water conservation programs. On request of the local governing body of a district, the Department of Agriculture provides technical and other assistance.

Farm prices and income.—Information on prices received by farmers for products they sell and prices paid for articles they buy for production and family living are obtained by the Statistical Reporting Service of the Department of Agriculture from about 33,000 voluntary reporters, including farmers, local merchants, and handlers of agricultural products. Season average prices received by farmers are calculated by weighting midmonth prices by monthly sales during the crop marketing season, beginning with the first month in which a particular crop harvest begins.

Index numbers of prices received and of prices paid by farmers (see table 904) are based on current midmonth prices. Information on construction of the indexes is in *Agricultural Handbook No. 118, Volume 1, Agricultural Prices and Parity*, and on revisions in the January 1959 issue of *Agricultural Prices*, both published by the former Agricultural Marketing Service. The ratio of the index of prices received to the index of prices paid measures the monthly variation in the average per unit exchange value of farm products in terms of commodities and services bought by farmers.

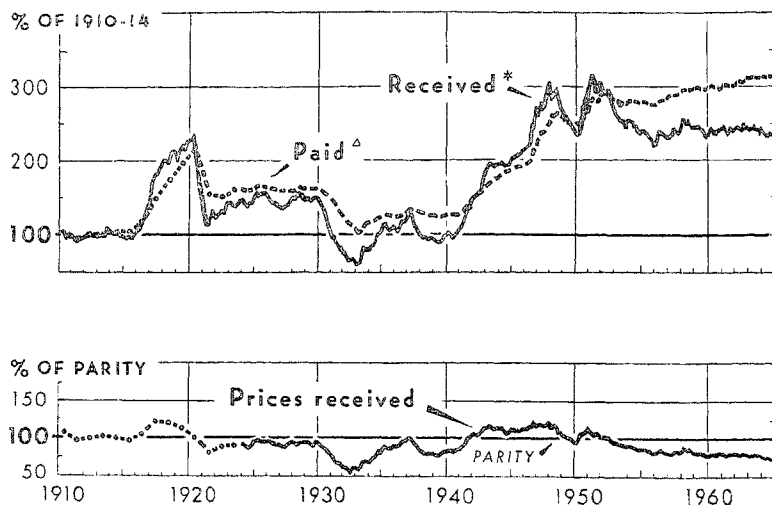
Cash income is the cash receipts from farm marketings and represents quantities of agricultural products sold by farmers multiplied by prices received per unit of production at the local market. Gross farm income includes cash receipts and also Government payments, value of farm products consumed on the farm, and rental value of farm homes.

Alaska and Hawaii.—Statements specifying inclusion or exclusion of figures for Alaska and Hawaii appear in the headnotes to each table unless the inclusion or exclusion is self-evident.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1957*. See preface.

FIG. XXXIX. INDEXES OF PRICES RECEIVED AND PAID BY FARMERS: 1910 TO 1964

[See table 904]



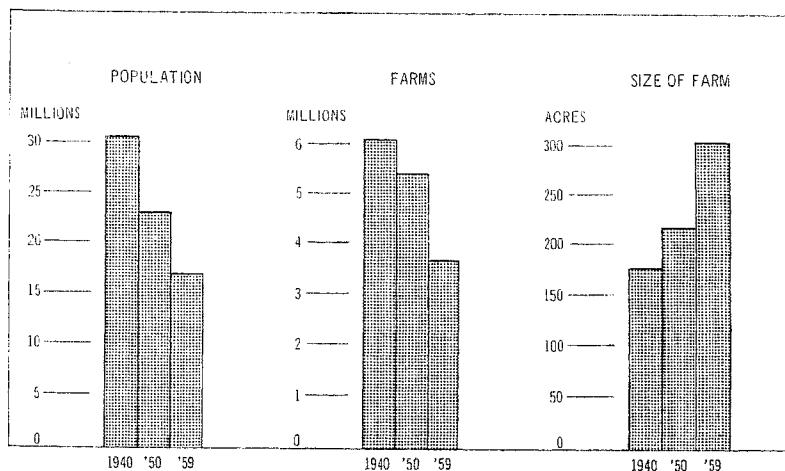
*Monthly data.

Δ Includes interest, taxes, and wage rates. Annual average data, 1910 to 1923; by quarters, 1924 to 1936; by months, 1937 to date.

Source: Dept. of Agriculture, Economic Research Service.

FIG. XL. FARM POPULATION, FARMS, AND FARM SIZE: 1940, 1950, AND 1959

[See tables 873 and 875]



Source: Dept. of Commerce, Bureau of the Census.

No. 873. FARM POPULATION—NUMBER, PERCENT OF TOTAL POPULATION, AND COMPONENTS OF CHANGE: 1920 TO 1964

[In thousands. Beginning 1959, includes Alaska and 1960, Hawaii. Figures for 1941 to 1959 are revised to provide a continuous series approximating the new definition of farm population; see text, p. 2. See *Historical Statistics, Colonial Times to 1957*, series C 74-79, for estimates for 1920 to 1934]

YEAR	Farm population, Apr. 1	CHANGE SINCE PRECEDING APRIL		Farm population as percent of total population ²	YEAR	Farm population, Apr. 1	CHANGE SINCE PRECEDING APRIL		Farm population as percent of total population ²
		Net change: Births and deaths	Net change: Through migration ¹				Net change: Births and deaths	Net change: Through migration ¹	
1920-----	31,974	(NA)	(NA)	30.1	1949-----	24,194	397	-586	16.3
1925-----	31,190	500	-487	27.0	1950-----	23,048	392	-1,537	15.3
1930-----	30,529	426	-477	24.9	1951-----	21,890	373	-1,531	14.2
1935-----	32,161	383	-527	25.3	1952-----	21,748	341	-483	13.9
1936-----	31,737	376	-799	24.8	1953-----	19,874	328	-2,201	12.5
1937-----	31,266	363	-634	24.3	1954-----	19,019	296	-1,151	11.8
1938-----	30,980	375	-691	23.9	1955-----	19,073	268	-210	11.6
1939-----	30,840	405	-545	23.6	1956-----	18,712	261	-627	11.2
1940-----	30,547	410	-703	23.2	1957-----	17,659	239	-1,295	10.4
1941-----	30,118	359	-785	22.6	1958-----	17,128	220	-748	9.9
1942-----	28,914	383	-1,587	21.5	1959-----	16,592	203	-740	9.4
1943-----	26,186	418	-3,145	19.2	1960-----	15,635	184	-1,142	8.7
1944-----	24,815	370	-1,740	18.0	1961-----	14,803	168	-1,000	8.1
1945-----	24,420	358	-748	17.5	1962-----	14,313	156	-646	7.7
1946-----	25,403	312	671	18.0	1963-----	13,397	140	-1,086	7.1
1947-----	25,829	470	-44	18.0	1964-----	12,954	121	-533	6.8
1948-----	24,383	443	-1,889	16.7					

NA Not available.

¹ Beginning 1940, includes inductions and enlistments into Armed Forces, and persons returning from Armed Forces. For all years, includes persons who did not move but who were in and out of the farm population because agricultural operations began or ceased, respectively, on the place where they were living.

² Total population includes Armed Forces abroad.

Source: Dept. of Agriculture, Economic Research Service, *Farm Population, Estimates for 1910-62, 1963, and 1964*, and (jointly with the Dept. of Commerce, Bureau of the Census), *Estimates of the Farm Population of the United States, April 1964*.

No. 874. FARMS—NUMBER AND ACREAGE, BY SIZE OF FARM: 1940 TO 1959

[Excludes Alaska and Hawaii. 1950 data, except number of farms, based on a sample of farms. May not agree with other 1950 sample data, since size data were not adjusted to agree with total count of farms. See also *Historical Statistics, Colonial Times to 1957*, series K 61-72]

SIZE OF FARM	1940	1950	1954	Number of farms	Land in farms (1,000 acres)	1959			
						Crop-land harvested (1,000 acres)	Percent distribution		
							Num-ber of farms	All land in farms	Crop-land har-vested
Total-----	6,096,799	5,382,162	4,782,416	3,703,894	1,120,158	313,446	100.0	100.0	100.0
Under 10 acres-----	506,402	484,914	484,291	240,733	1,039	452	6.5	0.1	0.1
10 to 49 acres-----	1,780,260	1,477,850	1,212,831	811,202	21,808	9,086	21.9	1.9	2.9
50 to 99 acres-----	1,291,048	1,047,801	884,063	657,685	47,929	18,280	17.8	4.3	5.8
100 to 179 acres-----	1,309,741	1,102,562	953,109	772,241	105,694	46,929	20.8	9.4	15.0
180 to 259 acres-----	486,336	487,325	463,698	414,373	89,482	43,198	11.2	8.0	13.8
260 to 499 acres-----	458,787	478,084	482,246	471,396	155,389	78,826	12.7	14.8	25.1
500 to 999 acres-----	163,694	182,264	191,697	199,965	137,319	54,303	5.4	12.3	17.3
1,000 acres and over--	100,531	121,362	130,481	136,299	551,498	62,371	3.7	49.2	19.9

Source: Dept. of Commerce, Bureau of the Census; *U.S. Census of Agriculture: 1950*, Vol. II, 1954, Vol. II, and 1959, Vol. II.

No. 875. FARMS—NUMBER, ACREAGE, AND VALUE, BY STATES: 1954 AND 1959
 [For composition of regions, see fig. I, p. XII]

STATE	NUMBER OF FARMS (1,000)		ALL LAND IN FARMS (1,000 acres)		AVERAGE ACREAGE PER FARM		TOTAL VALUE ¹ (mil. dol.)		AVERAGE VALUE PER FARM ² (dollars)	
	1954	1959	1954	1959	1954	1959	1954	1959	1954	1959
U.S.	4,782	3,711	1,158,192	1,123,508	242	303	97,583	129,005	20,405	34,826
The North.....	2,043	1,715	434,477	421,440	213	246	48,025	61,761	23,506	36,003
The South.....	2,317	1,640	386,289	357,448	167	217	39,011	12,755	23,702	28,702
The West.....	423	349	337,426	344,620	798	987	20,009	28,233	47,334	82,342
New England	82	57	11,121	9,316	136	164	1,253	1,414	15,303	24,360
Maine.....	23	17	3,614	3,082	165	178	219	266	9,392	14,756
New Hampshire.....	10	7	1,457	1,124	140	172	125	118	11,989	18,046
Vermont.....	16	12	3,318	2,945	208	243	202	240	12,662	19,837
Massachusetts.....	17	11	1,439	1,142	83	102	322	364	18,552	31,692
Rhode Island.....	2	1	155	138	77	99	53	62	26,475	37,871
Connecticut.....	13	8	1,138	884	89	107	331	393	25,971	47,372
Middle Atlantic	257	198	29,898	26,730	116	135	4,156	4,879	16,156	24,657
New York.....	105	82	15,071	13,490	143	164	1,675	1,971	15,844	23,936
New Jersey.....	23	16	1,665	1,379	73	89	672	717	29,635	46,397
Pennsylvania.....	129	100	13,162	11,862	102	119	1,809	2,190	14,039	21,892
East North Central	799	666	108,597	103,386	136	155	18,942	24,737	23,717	37,132
Ohio.....	177	140	19,892	18,507	113	132	3,707	4,573	20,937	32,683
Indiana.....	154	128	19,233	18,613	126	145	3,733	4,933	24,308	38,486
Illinois.....	176	155	30,399	30,327	173	196	7,036	6,580	40,083	61,494
Michigan.....	139	112	10,407	14,783	119	132	2,195	2,855	15,800	25,835
Wisconsin.....	154	131	22,607	21,166	147	161	2,271	2,796	14,789	21,309
West North Central	905	795	284,861	282,007	315	355	23,673	30,732	26,151	38,680
Minnesota.....	165	140	32,285	30,796	195	211	3,478	4,749	21,061	32,605
Iowa.....	193	175	34,046	33,831	177	194	6,770	8,687	35,080	49,150
Missouri.....	202	169	34,195	33,153	170	197	2,785	3,727	13,815	22,094
North Dakota.....	62	55	41,877	41,466	676	755	1,463	2,141	24,110	38,978
South Dakota.....	63	58	44,940	44,861	719	805	1,787	2,277	28,263	40,862
Nebraska.....	101	90	47,487	47,756	471	528	3,400	4,234	33,713	46,796
Kansas.....	120	104	50,024	50,153	416	481	3,980	5,017	33,117	48,084
South Atlantic	859	592	98,259	83,339	114	141	9,555	12,832	11,123	21,671
Delaware.....	6	5	814	763	129	146	128	180	20,287	34,551
Maryland.....	32	25	3,897	3,457	120	138	691	982	21,268	39,095
Virginia.....	136	98	14,686	13,126	108	135	1,651	1,819	11,869	18,636
West Virginia.....	69	44	7,352	6,063	107	138	497	450	7,248	10,230
North Carolina.....	268	191	18,260	15,888	68	83	2,346	2,949	8,765	15,475
South Carolina.....	124	78	11,069	9,149	89	117	965	1,226	7,769	15,685
Georgia.....	166	106	24,019	19,658	145	185	1,442	1,908	8,710	17,944
Florida.....	58	45	18,162	15,237	316	338	1,935	3,317	33,627	73,654
East South Central	790	563	77,202	68,285	98	121	6,086	7,855	7,709	13,962
Kentucky.....	193	151	18,034	17,031	93	113	1,722	2,305	8,900	15,269
Tennessee.....	203	158	17,654	16,081	87	102	1,635	2,095	8,049	13,288
Alabama.....	177	116	20,810	18,543	118	142	1,206	1,480	6,816	12,780
Mississippi.....	216	138	20,702	18,630	96	135	1,523	1,974	7,053	14,292
West South Central	668	491	210,828	205,824	316	419	13,908	18,324	20,817	37,306
Arkansas.....	145	95	17,944	16,459	124	173	1,378	1,797	9,496	18,615
Louisiana.....	111	74	11,441	10,347	103	139	1,278	1,766	11,497	23,719
Oklahoma.....	119	85	35,630	35,801	300	378	2,256	3,002	18,964	31,710
Texas.....	293	227	145,813	143,218	495	631	8,997	11,759	30,711	51,787
Mountain	180	149	260,942	264,429	1,450	1,774	7,775	10,878	48,191	72,967
Montana.....	33	29	61,469	64,081	1,859	2,213	1,476	2,223	44,653	70,761
Idaho.....	39	34	14,364	15,232	371	452	1,296	1,701	33,406	50,528
Wyoming.....	11	10	34,959	36,200	3,059	3,715	635	774	46,955	79,447
Colorado.....	41	33	38,335	38,787	942	1,102	1,629	2,053	37,513	61,494
New Mexico.....	21	16	49,451	46,293	2,347	2,908	1,055	1,086	50,078	68,233
Arizona.....	9	7	41,790	40,203	4,483	5,558	1,075	1,951	115,390	269,724
Utah.....	23	18	12,262	12,639	537	712	696	765	26,652	42,391
Nevada.....	3	2	8,231	10,043	2,881	4,649	223	334	78,162	141,974
Pacific	243	200	76,484	80,191	315	401	12,233	17,355	50,406	89,554
Washington.....	65	52	17,641	18,717	317	383	2,022	2,455	31,018	47,590
Oregon.....	54	43	21,047	21,236	387	499	1,643	1,857	30,178	43,608
California.....	123	99	37,795	36,888	307	372	5,569	13,026	69,020	131,212
Alaska.....	(NA)	(2)	(NA)	888	(NA)	2,421	(NA)	13	(NA)	48,379
Hawaii.....	(NA)	6	(NA)	2,461	(NA)	394	(NA)	(NA)	(NA)	(NA)

NA Not available. Z Less than 500.

¹ Based on average value per acre for farms in sample for which value of land and buildings was reported.

² Average for farms reporting value of land and buildings.

Source: Dept. of Commerce, Bureau of the Census; *U.S. Census of Agriculture: 1959*, Vol. II.

No. 876. FARMS—NUMBER, BY ECONOMIC CLASS, BY STATES: 1959

[Based on reports for a sample of farms. For composition of regions, see fig. I, p. XII. Totals for commercial farms and for other farms are given in table 876]

STATE	All farms	COMMERCIAL FARMS BY VALUE OF FARM PRODUCTS SOLD						OTHER FARMS		
		\$50 to \$2,499	\$2,500 to \$4,999	\$5,000 to \$9,999	\$10,000 to \$19,999	\$20,000 to \$39,999	\$40,000 and over	Part-time	Part-retirement	Abnormal
U.S.	3,707,973	348,954	617,677	653,881	483,004	210,402	102,099	884,785	404,110	3,061
North	1,714,492	89,591	297,985	407,192	317,932	118,933	40,862	295,825	144,870	1,302
South	1,045,028	244,768	277,693	182,540	111,059	64,043	31,255	500,052	231,663	946
West	348,453	14,595	42,189	54,149	54,013	30,826	29,982	88,308	27,577	814
N.E.	56,861	2,386	6,417	8,806	9,663	5,859	2,696	15,123	5,783	128
Maine	17,342	679	1,714	2,099	2,533	1,825	935	5,308	2,221	28
N. H.	6,544	242	708	914	914	445	190	2,205	902	18
Vt.	12,167	645	1,672	2,614	2,667	971	237	2,341	811	9
Mass.	11,149	482	1,451	1,558	1,837	1,258	557	3,033	922	41
R. I.	1,400	116	170	210	266	220	98	220	92	2
Conn.	8,250	322	693	1,095	1,446	1,140	679	2,016	835	30
M.A.	197,866	8,228	26,446	37,581	35,181	14,950	4,943	51,285	18,939	313
N. Y.	82,354	2,778	11,183	17,323	16,707	6,658	2,111	18,723	6,769	102
N. J.	15,463	635	1,723	2,331	3,434	2,568	1,135	2,611	1,096	30
Pa.	100,049	4,915	15,540	17,927	15,040	5,724	1,697	29,951	11,074	181
E.N.C.	666,118	32,637	119,236	148,804	113,214	38,633	11,376	138,663	63,011	444
Ohio	140,360	7,716	25,578	20,784	17,038	5,585	1,707	38,020	17,161	177
Ind.	126,143	6,616	22,640	24,811	20,314	7,659	1,892	30,076	14,068	70
Ill.	104,632	6,071	21,062	34,303	38,348	17,345	5,699	20,041	11,225	58
Mich.	111,765	6,362	21,047	19,363	12,779	3,823	1,068	34,149	12,511	63
Wis.	131,192	5,873	28,309	49,543	23,735	4,221	1,010	16,377	8,948	76
W.N.C.	793,647	46,340	145,886	212,001	159,774	59,491	21,847	90,754	57,137	417
Minn.	145,630	9,271	28,223	44,546	28,428	7,503	2,330	17,010	8,242	89
Iowa	174,635	5,945	28,547	47,428	48,025	21,574	8,110	11,660	6,621	75
Mo.	168,679	14,768	34,447	30,398	18,365	6,394	2,274	39,566	22,364	71
N. Dak.	54,791	4,379	12,462	18,766	11,078	2,948	784	2,623	1,716	46
S. Dak.	55,496	4,240	12,443	17,064	10,484	3,439	1,131	2,372	2,798	57
Nebr.	60,223	3,517	15,263	26,485	22,808	9,033	3,741	4,711	4,618	47
Kans.	104,134	4,520	19,469	26,434	20,586	8,610	3,477	12,212	8,790	36
S.A.	591,863	79,050	103,524	79,113	40,855	17,811	9,333	179,175	82,559	443
Del.	5,203	270	545	918	883	773	398	636	476	5
Md.	25,108	1,383	3,535	4,064	4,008	2,142	847	6,396	2,696	37
Va.	67,619	14,630	16,064	9,408	5,436	2,749	1,218	30,520	17,230	52
W. Va.	43,982	4,946	5,531	2,063	1,396	500	229	21,458	9,895	14
N. C.	190,511	26,904	49,511	33,579	12,055	3,144	1,085	47,255	23,008	110
S. C.	78,163	13,591	13,164	9,344	3,823	1,603	808	25,342	10,453	35
Ge.	106,271	14,067	17,698	14,734	9,358	4,279	1,769	31,456	12,717	79
Fla.	46,006	3,259	6,556	4,953	3,854	2,621	2,979	15,612	5,971	101
E.S.C.	562,538	114,182	98,736	51,176	22,866	8,862	4,628	175,169	86,713	206
Ky.	150,972	27,167	30,438	18,420	7,908	2,264	564	40,461	23,768	92
Tenn.	157,695	20,598	30,122	14,792	5,718	1,760	640	50,630	24,376	51
Ala.	115,773	24,274	16,000	8,906	4,864	2,650	1,156	40,770	17,123	30
Miss.	138,068	33,183	22,176	9,058	4,476	2,188	2,269	43,308	21,447	33
W.S.C.	490,627	51,536	75,243	62,251	47,338	27,970	17,294	146,308	62,391	296
Ark.	94,980	13,484	14,322	9,913	7,350	4,276	3,112	29,361	13,108	49
La.	74,370	13,010	9,204	5,342	3,761	2,109	1,289	29,525	10,093	37
Okla.	94,673	8,210	18,801	15,864	10,638	4,054	1,866	28,143	9,593	54
Tex.	228,599	10,823	34,916	31,127	25,689	17,531	11,527	59,279	29,651	166
Mt.	148,507	7,430	20,465	28,148	27,934	16,612	10,171	27,737	9,496	514
Mont.	28,302	1,234	4,024	6,570	6,387	3,860	1,444	3,652	1,583	48
Idaho	33,648	1,264	4,895	7,164	7,038	3,550	1,660	6,067	1,908	104
Wyo.	9,705	496	1,390	1,999	2,160	1,268	771	1,186	407	18
Colo.	33,183	1,745	4,471	6,375	6,850	4,077	2,627	5,156	1,853	29
N. Mex.	15,869	1,740	1,904	1,840	1,837	1,407	1,071	4,284	1,717	69
Ariz.	7,173	252	652	659	920	984	1,609	1,638	394	73
Utah	17,811	606	2,871	3,218	2,450	1,168	638	5,286	1,430	151
Nev.	2,316	93	258	328	292	303	351	523	140	22
Pac.	199,946	7,165	21,724	26,001	26,079	20,214	19,811	60,571	18,061	300
Wash.	51,454	1,783	5,348	6,417	6,987	4,781	2,867	13,883	4,964	44
Oreg.	42,851	1,811	6,207	5,518	4,954	3,168	2,154	14,945	4,752	52
Calif.	99,232	8,090	10,311	13,335	13,632	12,035	14,526	24,344	7,782	180
Alaska	367	26	28	31	44	36	2	154	25	3
Hawaii	6,242	455	830	700	482	204	244	2,748	558	21

Source: Dept. of Commerce, Bureau of the Census; U.S. Census of Agriculture: 1959, Vol. II.

Farms

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NO. 877. FARMS—NUMBER, ACREAGE, AND VALUE OF SALES, BY SIZE OF SALES: 1949, 1954, AND 1959

[Excludes Alaska and Hawaii. Value of farm sales expressed in prices received by farmers in 1959]

YEAR AND ITEM	SIZE OF SALES				PERCENT			
	\$2,500 or more	\$2,500 to \$4,999	\$5,000 to \$9,999	\$10,000 or more	\$2,500 or more	\$2,500 to \$4,999	\$5,000 to \$9,999	\$10,000 or more
1949								
Farms.....1,000.....	2,087	882	721	484	100.0	42.3	34.5	23.2
Acres.....1,000 acres.....	849,794	168,606	215,075	466,023	100.0	19.9	25.3	54.8
Average per farm.....acres.....	407	191	298	963	(X)	(X)	(X)	(X)
Value of sales.....mil. dol.....	18,919	3,063	4,894	10,932	100.0	16.3	25.9	57.8
Average per farm.....dollars.....	9,065	3,507	6,788	22,587	(X)	(X)	(X)	(X)
1954								
Farms.....1,000.....	2,102	812	707	583	100.0	38.6	33.6	27.8
Acres.....1,000 acres.....	885,036	163,216	220,520	501,300	100.0	18.4	24.9	56.7
Average per farm.....acres.....	421	201	312	860	(X)	(X)	(X)	(X)
Value of sales.....mil. dol.....	21,995	2,935	4,961	14,099	100.0	13.3	22.6	64.1
Average per farm.....dollars.....	10,465	3,615	7,017	24,186	(X)	(X)	(X)	(X)
1959								
Farms.....1,000.....	2,064	617	653	794	100.0	29.9	31.6	38.5
Acres.....1,000 acres.....	937,162	118,473	188,403	630,286	100.0	12.6	20.1	67.3
Average per farm.....acres.....	454	192	289	794	(X)	(X)	(X)	(X)
Value of sales.....mil. dol.....	28,850	2,271	4,718	21,861	100.0	7.9	16.3	75.8
Average per farm.....19 dollars.....	13,975	3,682	7,223	27,516	(X)	(X)	(X)	(X)

X Not applicable.

Source: Dept. of Agriculture, Economic Research Service; unpublished data. Data based on Census of Agriculture, Bureau of the Census.

NO. 878. FARMS—AVERAGE VALUE OF LAND AND BUILDINGS, BY VALUE: 1960

[Excludes Alaska and Hawaii. Estimates based on information obtained from a sample of farms during fall of 1960. For discussion of sampling variability, see source]

VALUE	Number of farms (percent)	VALUE OF LAND AND BUILDINGS		VALUE	Number of farms (percent)	VALUE OF LAND AND BUILDINGS	
		Average per farm (dollars)	Percent			Average per farm (dollars)	Percent
All farms.....	100.0	39,753	100.0	\$40,000 to \$59,999.....	10.9	47,123	13.0
Less than \$15,000.....	40.7	6,921	7.1	\$60,000 to \$99,999.....	9.3	75,157	17.5
\$15,000 to \$24,999.....	17.5	18,546	8.2	\$100,000 to \$199,999.....	5.6	130,146	18.3
\$25,000 to \$39,999.....	13.9	30,534	10.7	\$200,000 or more.....	2.1	475,001	25.2

Source: Dept. of Commerce, Bureau of the Census; U.S. Census of Agriculture: 1959, Vol. V.

No. 879. FARMS—NUMBER, BY TYPE, BY STATES: 1959

[Based on reports for a sample of farms. In general, a farm was classified as a particular type if its sales of a particular product or group of products amounted to 50 percent or more of total value of farm products sold. For composition of regions, see fig. 1, p. XII]

STATE	All farms	COMMERCIAL FARMS										Other farms ³
		Total ¹	Cash grain	Cotton	Other field crop	Veg-etable	Fruit and nut	Dairy	Poultry	Live-stock ²	General	
U.S.	3,707,973	2,416,017	398,047	241,849	38,332	21,912	61,419	428,293	103,279	684,061	211,613	1,291,956
Percent.	100.0	65.2	10.8	6.5	1.0	0.6	1.6	11.6	2.8	18.5	5.7	35.1
The North ..	1,714,492	1,272,495	308,265	6,758	9,279	9,392	12,565	331,035	39,637	428,551	107,073	441,997
The South ..	1,645,028	911,769	54,760	225,983	19,009	6,735	14,966	66,945	50,646	188,964	82,439	733,260
The West ..	348,453	231,764	35,022	0,108	10,044	5,785	33,888	30,313	12,606	66,546	22,101	110,699
New England ..	56,861	35,827	31	-	2,760	899	1,374	18,546	6,694	1,684	911	21,034
Maine ..	17,342	9,785	21	-	2,457	167	403	3,257	2,243	338	259	7,557
New Hampshire ..	6,544	3,419	-	-	25	46	109	1,808	890	230	130	3,125
Vermont ..	12,167	9,006	5	-	38	25	68	7,833	258	392	213	3,161
Massachusetts ..	11,149	7,153	-	-	133	403	555	2,817	1,550	432	197	3,996
Rhode Island ..	1,400	1,086	-	-	46	76	35	420	284	45	10	314
Connecticut ..	8,259	5,378	5	-	61	192	194	2,416	1,469	238	96	2,881
Middle Atlantic ..	197,866	127,329	4,278	-	1,906	3,836	4,484	73,647	14,206	11,329	7,599	70,537
New York ..	82,564	50,760	1,670	-	833	1,670	2,694	39,072	3,683	2,816	2,389	25,594
New Jersey ..	15,463	11,726	600	-	507	1,558	647	2,744	3,583	514	438	3,737
Pennsylvania ..	100,049	66,843	2,102	-	566	608	1,143	31,831	6,920	7,999	4,772	41,206
E. N. Central ..	666,118	464,000	121,014	5	2,066	3,884	6,134	155,335	10,967	119,307	36,820	202,118
Ohio ..	140,366	85,008	19,904	-	200	762	888	22,201	3,067	24,560	10,117	55,358
Indiana ..	128,143	83,931	25,825	-	108	517	235	10,871	3,162	32,477	9,095	44,212
Illinois ..	154,652	123,328	58,753	5	32	513	450	11,222	1,122	42,481	7,677	31,324
Michigan ..	111,765	65,042	14,267	-	1,230	1,304	4,145	24,673	2,079	9,839	6,192	46,723
Wisconsin ..	131,192	100,691	2,265	-	496	788	476	86,368	1,547	9,950	3,739	24,501
W. N. Central ..	793,647	645,339	182,942	6,753	2,547	773	513	83,507	7,770	296,231	61,743	148,308
Minnesota ..	145,639	120,301	27,271	-	1,166	308	85	43,293	2,273	28,245	17,073	26,538
Iowa ..	174,685	154,329	31,233	-	23	122	60	11,343	1,800	90,237	13,161	20,566
Missouri ..	168,679	106,678	19,397	6,753	66	147	298	10,526	2,179	52,690	7,726	62,001
North Dakota ..	54,791	50,407	27,911	-	771	-	-	2,282	232	14,218	4,910	4,384
South Dakota ..	55,496	49,084	6,305	-	53	10	-	2,606	334	36,099	4,218	5,815
Nebraska ..	90,223	80,847	30,828	-	436	55	25	2,350	413	38,513	8,071	9,376
Kansas ..	104,134	83,096	39,997	-	33	131	45	5,195	539	30,229	6,584	21,038
South Atlantic ..	591,863	329,686	11,781	29,699	9,869	4,019	11,270	23,796	27,654	43,622	34,643	262,177
Delaware ..	5,203	3,887	980	-	39	106	8	728	1,532	140	274	1,310
Maryland ..	25,108	15,979	1,740	-	98	342	130	5,070	2,142	2,184	1,054	9,129
Virginia ..	97,619	49,527	2,387	55	2,089	358	665	6,261	3,151	11,120	3,939	48,062
West Virginia ..	43,982	12,605	243	-	86	60	243	2,705	1,600	6,134	608	31,377
North Carolina ..	190,511	120,078	3,509	4,827	2,506	668	573	4,487	6,209	7,040	10,880	70,433
South Carolina ..	78,163	42,333	1,328	12,081	159	343	956	1,463	1,461	3,394	4,096	35,830
Georgia ..	106,271	61,955	1,329	12,476	3,401	450	504	2,319	9,923	9,280	12,648	44,316
Florida ..	45,006	23,322	265	260	591	1,086	8,191	763	1,636	4,330	1,343	21,684
E. S. Central ..	562,538	300,450	8,163	99,648	2,382	968	927	25,040	11,114	58,115	28,819	262,688
Kentucky ..	150,872	86,651	2,800	124	207	100	139	8,189	1,166	18,601	10,287	64,321
Tennessee ..	167,695	82,630	1,972	23,170	191	255	212	9,642	1,907	17,799	9,686	75,050
Alabama ..	115,773	57,850	1,721	29,765	1,514	363	300	1,700	5,378	9,615	5,801	57,923
Mississippi ..	138,098	73,310	1,670	46,689	470	250	276	5,509	2,673	11,843	3,085	64,788
W. S. Central ..	490,627	281,632	34,816	96,636	6,758	1,748	2,769	18,109	12,178	87,227	18,977	208,995
Arkansas ..	94,980	52,462	4,811	24,892	251	397	924	4,266	5,018	9,468	2,040	42,518
Louisiana ..	74,370	34,715	3,743	14,006	2,481	302	834	2,634	987	6,898	1,446	39,655
Oklahoma ..	94,678	56,942	14,817	5,384	1,418	140	146	4,678	779	23,222	6,036	37,736
Texas ..	226,599	137,513	11,445	51,454	2,608	900	865	6,533	5,394	47,639	9,455	89,086
Mountain ..	148,507	110,760	23,083	4,021	6,303	835	1,640	12,749	1,988	46,328	12,583	37,747
Montana ..	28,802	23,519	8,820	-	862	20	91	1,105	112	10,874	1,438	5,233
Idaho ..	33,648	25,871	6,198	-	3,001	121	265	5,520	245	5,961	4,974	8,077
Wyoming ..	9,705	8,084	1,027	-	242	5	-	411	24	5,505	816	1,621
Colorado ..	33,183	26,145	6,693	-	1,550	360	624	2,134	400	11,308	2,633	7,038
New Mexico ..	15,869	9,799	626	2,177	198	71	118	393	193	5,117	735	0,070
Arizona ..	7,173	5,073	170	1,830	32	141	213	361	228	1,656	353	2,100
Utah ..	17,811	10,944	522	-	387	95	259	2,065	695	4,847	1,354	6,867
Nevada ..	2,316	1,625	27	14	21	22	-	160	31	1,060	280	691
Pacific ..	199,946	120,994	11,939	5,087	3,741	4,950	32,248	17,564	10,708	20,218	9,518	78,952
Washington ..	91,554	28,163	6,070	-	1,027	820	4,616	5,938	2,017	4,571	2,031	23,391
Oregon ..	42,551	22,802	2,518	-	798	848	2,749	3,439	1,436	6,181	3,490	19,749
California ..	99,232	66,929	3,341	5,087	1,019	2,921	24,273	8,046	7,022	8,928	8,968	32,303
Alaska ..	367	185	10	-	25	10	1	73	19	28	9	182
Hawaii ..	6,242	2,915	-	-	872	351	709	68	214	510	20	3,327

- Entry represents zero.

¹ Includes 227,212 tobacco farms and other miscellaneous commercial farms not shown separately.

² Excludes dairy and poultry farms; includes ranches.

³ Part-time, part-retirement, and abnormal farms. For definition, see source.

Source: Dept. of Commerce, Bureau of the Census; *U.S. Census of Agriculture: 1959*, Vol. II.

No. 880. VALUE OF ALL FARM PRODUCTS SOLD, BY SOURCE OF INCOME, 1954 AND 1959, AND BY STATES, 1959

[In thousands of dollars. For 1959, dairy products and livestock sold alive based on a sample of farms for all States except Alaska and Hawaii]

YEAR AND STATE	All farm products sold	Field crops ¹	Vegetables	Fruits and nuts	Horticultural specialties ²	Dairy products	Poultry and poultry products	Livestock and livestock products ³
1954-----	24,644,727	9,925,110	645,095	1,198,016	584,081	3,334,066	1,918,936	7,039,422
1959								
U.S.-----	30,492,721	10,492,816	739,626	1,398,423	802,724	4,021,591	2,257,822	10,779,718
N.E.	592,972	93,275	12,652	24,957	50,302	224,434	148,721	38,630
Maine.....	171,318	54,348	2,501	5,727	7,906	32,090	61,684	7,063
N.H.....	48,122	1,654	983	2,970	3,537	20,162	14,874	4,002
Vt.....	108,547	2,899	387	1,862	4,526	83,183	4,781	10,959
Mass.....	126,440	11,545	5,443	10,569	18,848	41,021	29,530	9,484
R.I.....	18,290	2,846	437	452	3,112	6,791	3,796	885
Conn.....	120,246	19,984	2,951	3,377	12,373	41,198	34,106	6,266
M.A.	1,699,013	178,711	78,403	88,165	137,830	741,010	252,562	222,332
N.Y.....	755,410	72,679	35,891	44,256	48,236	408,632	70,093	75,621
N.J.....	231,069	20,664	29,965	18,618	25,679	53,061	67,790	15,292
Pa.....	712,535	85,369	12,547	25,291	63,913	279,317	114,679	131,418
E.N.C.	5,203,259	1,593,071	80,018	91,266	145,772	1,065,199	265,378	1,962,555
Ohio.....	862,851	250,508	15,790	11,278	53,615	166,921	62,292	302,446
Ind.....	945,685	333,314	9,970	5,767	17,120	92,513	75,752	411,250
Ill.....	1,810,661	741,161	14,849	7,464	32,381	122,467	42,642	849,717
Mich.....	622,960	184,662	19,943	56,569	27,593	166,069	32,876	135,748
Wis.....	961,103	83,437	19,465	10,189	15,063	517,239	52,316	263,395
W.N.C.	7,798,654	2,404,489	16,986	8,078	45,298	645,508	325,533	4,352,851
Minn.....	1,211,750	350,530	9,989	1,359	12,806	259,077	99,616	178,473
Iowa.....	2,284,110	482,772	2,400	1,039	10,724	140,735	98,181	1,548,268
Mo.....	1,011,892	343,097	2,882	4,405	12,053	93,312	53,123	502,420
N. Dak.....	468,709	277,397	72	38	701	29,675	7,075	163,761
S. Dak.....	513,876	81,041	173	25	1,137	28,296	20,503	382,700
Nebr.....	1,197,501	390,199	428	266	2,415	39,871	26,990	737,333
Kans.....	1,110,817	479,453	1,044	946	4,770	54,543	20,146	549,014
S.A.	3,248,094	1,202,573	128,333	397,408	159,275	345,982	505,318	509,206
Del.....	85,962	18,085	4,572	656	3,478	8,301	47,012	3,867
Md.....	231,126	51,393	9,333	4,375	9,983	63,625	56,417	36,010
Va.....	423,925	132,229	8,584	18,724	20,082	73,078	59,047	112,181
W. Va.....	99,142	5,207	625	10,723	4,823	18,155	23,022	36,686
N.C.	797,214	528,496	8,476	7,317	24,379	49,677	99,387	70,482
S.C.....	302,924	180,767	8,148	15,353	11,370	22,652	25,443	39,190
Ga.....	607,317	229,585	6,784	15,859	29,052	40,148	165,810	120,079
Fla.....	700,476	56,812	81,910	324,401	56,107	70,346	29,179	81,721
E.S.C.	1,972,391	966,675	11,934	14,281	55,232	192,067	207,488	524,714
Ky.....	518,070	241,795	1,106	2,179	7,629	62,010	16,176	187,176
Tenn.....	474,567	221,124	5,076	3,270	15,165	62,134	28,202	139,588
Ala.....	414,263	164,679	3,668	4,204	21,430	26,900	95,010	98,283
Miss.....	565,501	339,078	2,085	4,628	11,008	40,933	68,101	90,607
W.S.C.	3,663,710	1,941,374	39,000	30,123	39,940	206,903	227,513	1,178,857
Ark.....	639,187	429,121	3,092	7,659	6,214	24,544	94,169	74,389
La.....	334,908	202,334	1,952	4,979	7,088	28,923	17,852	71,781
Okl.....	580,735	239,958	2,217	1,811	6,627	43,032	14,851	272,237
Tex.....	2,108,881	1,069,961	31,740	15,674	20,011	110,404	160,641	760,450
Mt.	2,355,960	867,766	58,500	29,897	26,597	152,669	48,594	1,171,937
Mont.....	377,401	158,487	218	734	2,824	13,229	3,053	198,858
Idaho.....	438,384	228,755	3,780	6,182	3,609	47,137	6,289	142,541
Wyo.....	162,124	30,334	152	29	483	4,558	908	125,661
Colo.....	579,976	172,732	10,622	7,067	9,410	31,564	10,677	337,915
N. Mex.....	197,128	80,629	3,105	2,824	1,694	9,317	3,863	95,697
Ariz.....	388,380	163,202	37,297	9,716	6,703	17,805	6,111	147,546
Utah.....	155,675	27,250	2,643	3,318	1,478	25,066	17,507	78,412
Nev.....	56,892	6,377	684	28	306	4,002	187	45,307
Pac.	3,958,667	1,244,881	313,800	714,248	142,570	447,819	276,714	818,637
Wash.....	569,204	228,011	19,571	85,763	20,470	70,587	34,868	110,433
Oreg.....	411,843	132,666	22,198	43,084	23,651	42,386	25,063	122,805
Calif.....	2,822,071	773,829	268,649	580,383	96,157	323,540	209,731	569,732
Alaska.....	3,214	581	188	2	76	1,635	787	415
Hawaii.....	152,334	109,804	3,194	5,015	2,215	9,672	7,185	15,250

¹ Other than vegetables and fruits and nuts. ² Includes forest products.

³ Other than dairy and poultry.

Source: Dept. of Commerce, Bureau of the Census; *U.S. Census of Agriculture: 1959*, Vol. II.

No. 881. FARMS—NUMBER BY COLOR AND TENURE OF OPERATOR, AND ACREAGE AND VALUE BY TENURE OF OPERATOR: 1910 TO 1959

[1950 data for value of farms and all 1954 and 1959 data based on reports for a sample of farms. See also *Historical Statistics, Colonial Times to 1957*, series K 8-52]

YEAR, REGION, AND COLOR	All farms	Full owner	Part owner	Manager	TENANT	
					Cash ¹	Other
NUMBER OF FARMS						
United States: ²						
1910.....	6,361,502	3,354,897	593,825	58,104	712,294	1,642,382
1920.....	6,448,343	3,366,510	558,580	68,449	480,008	1,974,795
1930.....	6,288,648	2,911,044	656,750	55,889	489,210	2,175,155
1940.....	6,096,799	3,084,138	615,039	36,351	514,438	1,846,833
1950.....	5,382,162	3,080,583	824,923	23,527	212,790	1,231,339
1954.....	4,783,021	2,744,708	868,180	20,894	160,131	989,108
1959.....	3,707,973	2,116,594	834,470	21,060	107,217	628,632
The South:						
1910.....	3,097,547	1,329,390	215,121	16,284	453,060	1,093,692
1920.....	3,206,664	1,405,762	191,463	18,318	219,188	1,371,933
1930.....	3,223,816	1,190,683	224,992	17,358	238,032	1,552,751
1940.....	3,007,170	1,327,690	216,607	13,580	254,351	1,194,942
1950.....	2,652,423	1,411,123	325,999	9,979	119,855	785,467
1954.....	2,317,296	1,275,226	351,016	9,571	88,782	592,701
1959.....	1,645,028	946,613	322,952	9,196	49,231	317,036
White:						
1910.....	2,207,406	1,154,100	171,944	15,084	192,094	674,184
1920.....	2,283,750	1,227,204	152,432	16,548	118,913	788,653
1930.....	2,342,129	1,050,187	183,469	16,529	140,112	951,832
1940.....	2,326,904	1,185,788	186,246	13,215	189,667	732,988
1950.....	2,093,333	1,269,641	274,135	9,740	80,293	459,624
1954.....	1,853,820	1,145,372	300,280	9,190	60,634	338,344
1959.....	1,379,407	856,864	285,418	8,906	34,376	193,843
Nonwhite:						
1910.....	890,141	175,290	43,177	1,200	260,966	409,508
1920.....	922,914	178,558	39,031	1,770	100,275	603,280
1930.....	881,687	140,496	41,523	829	97,920	600,919
1940.....	690,266	141,902	31,361	365	64,684	441,954
1950.....	559,090	141,482	51,864	239	39,562	325,943
1954.....	493,470	129,854	50,736	381	28,148	254,367
1959.....	265,621	89,749	37,534	290	14,855	123,193
LAND IN FARMS (1,000 acres)						
United States: ²						
1910.....	378,798	464,923	133,631	53,731	67,847	158,686
1920.....	955,884	461,250	175,525	54,129	65,095	199,885
1930.....	986,771	372,450	245,926	61,986	71,370	235,039
1940.....	1,060,852	382,098	300,325	66,530	74,889	237,010
1950.....	1,158,566	418,970	422,394	105,241	42,203	168,757
1954.....	1,160,044	397,214	472,405	100,003	36,960	153,402
1959.....	1,123,378	346,483	503,682	109,980	33,985	129,238
AVERAGE VALUE OF FARMS (land and buildings)						
United States: ²						
1910.....	\$5,471	\$5,160	\$8,515	\$25,075	\$4,662	
1920.....	10,284	9,122	16,387	38,937	12,526	9,000
1930.....	7,614	7,255	12,389	40,052	7,770	5,784
1940.....	5,513	4,960	9,938	39,687	4,330	4,636
1950.....	13,911	10,716	25,133	128,255	11,763	(NA)
1954.....	19,761	14,511	35,764	166,800	16,184	(NA)
1959.....	33,175	22,478	56,660	244,714	32,949	35,630

NA Not available.

¹ For 1910, standing renters (renters paying a fixed quantity of products) were included with "Cash tenants" for all States; for 1920, those for northern and western States were included with "Cash tenants," and those for the South with "Other tenants."

² Beginning 1959, includes Alaska and Hawaii except that value of farms excludes Hawaii.

Source: Dept. of Commerce, Bureau of the Census; *U.S. Census of Agriculture: 1959*, Vol. II.

No. 882. FARMS—NUMBER, BY TENURE OF OPERATOR, BY STATES: 1954 AND 1959

[Data based on reports for a sample of farms. For composition of regions, see fig. I, p. XII. For total number of farms (all tenures combined), see table 875]

STATE	NUMBER OF FARMS OPERATED BY—								TENANTS AS PERCENT OF TOTAL	
	Full owners		Part owners		Managers		Tenants		1954	1959
	1954	1959	1954	1959	1954	1959	1954	1959		
United States.....	2,744,708	2,116,594	1,868,180	834,470	20,894	21,060	1,149,239	735,849	24.0	19.8
The North.....	1,189,462	965,172	430,306	424,380	6,800	6,747	416,707	328,193	20.4	19.1
The South.....	1,275,226	940,613	351,016	322,952	9,571	9,199	681,483	366,297	29.4	22.3
The West.....	1,280,020	214,809	186,858	87,138	4,523	5,117	151,049	41,389	12.1	11.0
New England.....	64,889	41,502	13,867	13,001	625	695	2,435	1,663	3.0	2.9
Maine.....	19,999	13,759	2,823	3,071	114	159	435	358	1.0	2.0
New Hampshire.....	8,352	4,760	1,772	1,684	57	68	242	132	2.3	2.0
Vermont.....	11,602	8,116	3,553	3,492	106	117	738	442	4.0	3.6
Massachusetts.....	14,019	8,321	2,623	2,346	254	202	420	280	2.4	2.5
Rhode Island.....	1,405	928	341	347	12	23	105	102	5.4	7.3
Connecticut.....	9,422	5,618	2,755	2,161	82	126	495	354	3.9	4.3
Middle Atlantic.....	195,711	140,919	42,212	41,491	1,356	1,357	17,920	14,099	7.0	7.1
New York.....	78,547	57,078	21,511	20,832	585	540	5,028	3,904	4.8	4.7
New Jersey.....	17,713	10,883	3,307	3,069	187	212	1,488	1,299	6.6	8.4
Pennsylvania.....	99,451	72,958	17,394	17,590	584	605	11,404	8,896	8.9	8.9
East North Central.....	492,161	395,714	152,869	148,951	2,635	2,453	151,400	119,000	18.9	17.9
Ohio.....	116,788	88,081	30,308	28,958	687	660	29,315	22,697	16.6	16.1
Indiana.....	94,188	75,796	30,829	30,251	425	379	28,255	21,717	18.4	16.9
Illinois.....	75,640	63,646	38,270	38,815	525	451	61,270	51,740	34.9	33.5
Michigan.....	99,027	77,862	29,163	26,232	406	368	10,347	7,803	7.4	7.0
Wisconsin.....	106,518	90,829	24,299	24,695	592	595	22,313	15,073	14.5	11.5
West North Central.....	436,701	377,037	221,358	220,937	2,184	2,242	244,952	193,431	27.1	24.4
Minnesota.....	96,758	84,571	36,171	34,723	304	451	32,091	25,894	19.4	17.8
Iowa.....	87,984	70,677	30,581	33,546	450	391	73,988	61,071	38.3	35.0
Missouri.....	128,124	106,159	37,742	37,696	503	385	35,311	24,439	17.5	14.5
North Dakota.....	23,467	19,775	25,488	24,478	95	195	12,758	10,343	20.6	18.9
South Dakota.....	19,714	17,625	24,288	23,158	197	220	18,151	14,493	29.1	26.1
Nebraska.....	35,141	31,181	26,342	27,436	327	325	38,923	31,281	38.6	34.7
Kansas.....	45,513	38,049	40,746	39,900	302	276	33,730	25,910	28.0	24.9
South Atlantic.....	497,734	350,144	115,504	106,188	3,917	4,032	241,520	131,499	28.1	22.2
Delaware.....	4,237	3,143	1,132	1,310	79	106	843	644	13.4	12.4
Maryland.....	22,605	16,860	4,344	4,056	337	342	5,297	3,850	16.3	15.3
Virginia.....	94,431	64,647	19,185	18,312	595	596	22,150	14,064	16.2	14.4
West Virginia.....	56,243	36,550	5,943	4,406	169	203	6,215	2,823	9.1	6.4
North Carolina.....	129,239	92,261	41,420	39,905	564	442	96,586	57,903	36.1	30.4
South Carolina.....	57,626	38,974	17,337	14,743	446	337	48,779	24,109	39.3	30.8
Georgia.....	88,005	62,240	19,255	17,643	915	761	67,200	25,627	34.6	24.1
Florida.....	45,448	35,469	8,879	5,813	812	1,245	4,351	2,479	7.0	5.5
East South Central.....	428,840	333,048	109,430	97,688	2,040	1,818	249,357	129,984	31.6	23.1
Kentucky.....	126,118	98,654	28,523	27,599	384	390	38,421	24,329	19.9	16.1
Tennessee.....	121,221	98,209	30,590	28,925	388	349	51,196	30,212	25.2	19.2
Alabama.....	88,432	60,902	27,427	22,637	537	390	60,553	31,844	34.2	27.5
Mississippi.....	93,069	75,283	22,890	18,527	731	689	99,197	43,599	45.9	31.6
West South Central.....	348,652	263,421	126,082	119,076	3,614	3,346	190,606	104,784	28.5	21.4
Arkansas.....	77,739	55,849	18,652	16,195	638	548	48,263	22,398	33.2	23.6
Louisiana.....	60,360	44,264	12,828	11,755	528	401	37,524	17,950	33.7	24.1
Oklahoma.....	58,372	46,460	31,418	29,919	544	433	28,936	17,860	24.3	18.9
Texas.....	152,181	116,842	63,184	61,207	1,904	1,964	75,893	46,586	25.9	20.6
Mountain.....	101,177	76,455	49,933	49,229	1,794	2,278	26,967	20,545	15.0	13.8
Montana.....	14,493	11,659	13,425	12,900	251	312	4,787	3,931	14.5	13.6
Idaho.....	24,231	19,861	7,711	8,577	259	327	6,609	4,883	17.0	14.5
Wyoming.....	5,198	4,049	4,128	3,910	178	222	1,851	1,524	16.3	15.7
Colorado.....	20,938	15,485	10,457	10,580	305	373	8,972	6,745	22.1	20.3
New Mexico.....	12,769	8,959	5,656	4,963	249	249	2,303	1,698	11.0	10.7
Arizona.....	5,727	3,940	2,252	1,995	290	391	1,016	847	10.9	11.8
Utah.....	15,703	10,924	5,879	5,791	190	292	1,236	804	5.4	4.5
Nevada.....	2,118	1,578	425	513	72	112	193	113	6.9	4.9
Pacific.....	178,843	138,354	86,925	37,909	1,729	2,839	124,082	20,844	9.9	10.4
Washington.....	48,723	36,398	9,991	10,266	371	325	6,050	4,555	9.3	8.9
Oregon.....	41,250	30,813	8,606	8,490	336	244	4,250	3,004	7.8	7.1
California.....	88,870	68,489	18,328	17,756	2,022	2,144	13,782	10,843	11.2	10.9
Alaska.....	(NA)	256	(NA)	82	(NA)	12	(NA)	17	(NA)	4.6
Hawaii.....	(NA)	2,898	(NA)	1,315	(NA)	114	(NA)	2,415	(NA)	38.7

NA. Not available.

1 Excludes Alaska and Hawaii.

Source: Dept. of Commerce, Bureau of the Census; U.S. Census of Agriculture: 1959, Vol. II.

No. 883. FARMS CHANGING OWNERSHIP—SUMMARY: 1930 TO 1964

(Excludes Alaska and Hawaii)

ITEM	1930	1940	1950	1955	1960	1962	1963	1964
Farms changing ownership per 1,000 farms (estimated number) ¹	61.5	62.8	52.2	46.6	47.1	45.9	44.8	46.9
Voluntary sales and trades ²	23.7	30.3	37.0	31.9	30.7	28.5	28.5	29.6
Forced sales and related defaults	20.8	15.8	1.8	2.4	2.2	2.2	1.6	2.1
Foreclosures of mortgages, bankruptcies, etc. ³	15.7	12.5	1.4	2.0	1.6	1.6	1.2	1.6
Delinquent taxes	5.1	3.3	0.4	0.4	0.6	0.6	0.4	0.5
Other transfers ⁴	17.0	16.7	13.4	12.3	14.2	15.2	14.7	15.2
Percentage of voluntary sales and trades:								
Purchased by local residents	82	83	79	79	78	(NA)	(NA)	(NA)
Purchased for operation	81	78	80	78	(NA)	(NA)	(NA)	(NA)
Occupation of purchaser:								
Active farmer	72	68	67	63	63	65	66	64
Retired farmer	4	4	5	4	3	3	3	3
Other occupation	24	28	28	33	34	32	31	33

NA. Not available. ¹ Year ending Mar. 15.² Includes contracts to purchase (but not options).³ Includes loss of title by default of contract, and surrender of title or transfers to avoid foreclosures.⁴ Inheritance and gift transfers; sales in settlement of estates; and miscellaneous and unclassified sales.Source: Dept. of Agriculture, Economic Research Service; periodic report, *Farm Real Estate Market Developments*.

No. 884. FARM REAL ESTATE—INDEXES OF AVERAGE VALUE OF FARMLAND AND BUILDINGS PER ACRE, BY STATES: 1940 TO 1965

(1957-59=100. As of March 1)

STATE	1940	1950	1955	1960	1965	STATE	1940	1950	1955	1960	1965
U.S. ¹	30	65	85	111	139	South Atlantic—Con.					
New England:						Virginia	30	62	84	109	135
Maine	50	71	90	111	128	West Virginia	43	72	83	110	131
New Hampshire	56	80	87	114	133	North Carolina	26	65	90	106	141
Vermont	48	84	86	114	128	South Carolina	28	64	87	112	144
Massachusetts	59	78	83	116	134	Georgia	26	56	79	118	167
Rhode Island	49	76	81	117	133	Florida	27	45	66	118	182
Connecticut	47	73	81	113	135	East South Central:					
Middle Atlantic:						Kentucky	28	70	85	112	148
New York	43	75	86	107	130	Tennessee	30	74	87	112	150
New Jersey	35	67	82	113	137	Alabama	29	62	84	113	159
Pennsylvania	36	62	82	111	141	Mississippi	24	58	73	108	148
East North Central:						West South Central:					
Ohio	26	59	85	105	125	Arkansas	25	62	85	115	167
Indiana	25	60	85	107	125	Louisiana	30	56	78	117	154
Illinois	29	63	85	106	124	Oklahoma	32	67	90	115	158
Michigan	28	62	83	109	127	Texas	34	63	91	117	159
Wisconsin	43	74	84	107	118	Mountain:					
West North Central:						Montana	24	57	80	116	142
Minnesota	32	63	80	108	121	Idaho	26	65	87	110	126
Iowa	34	73	90	108	117	Wyoming	27	68	83	113	141
Missouri	31	66	85	109	140	Colorado	26	74	91	110	136
North Dakota	30	64	83	111	138	New Mexico	26	77	98	109	141
South Dakota	30	73	88	109	135	Arizona	24	58	81	112	147
Nebraska	33	73	87	110	135	Utah	32	70	90	108	127
Kansas	30	70	89	108	131	Nevada	32	64	90	108	132
South Atlantic:						Pacific:					
Delaware	32	55	80	118	153	Washington	30	66	90	107	122
Maryland	27	54	79	113	167	Oregon	29	69	88	106	123
						California	26	58	79	116	160

¹ Excludes Alaska and Hawaii.Source: Dept. of Agriculture, Economic Research Service; periodic report, *Farm Real Estate Market Developments*.

No. 885. LAND UTILIZATION, FARM AND NONFARM: 1950 AND 1959

[In millions of acres. Includes Alaska and Hawaii]

MAJOR USE	1950		1959	
	Land	Percent	Land	Percent
Total land area	2,273	100.0	2,271	100.0
In farms	1,161	51.1	1,124	49.5
Cropland ¹	409	18.0	392	17.3
Grassland pasture ²	486	21.4	532	23.4
Woodland pasture.....	135	6.0	93	4.1
Woodland not pastured.....	85	3.7	70	3.1
Farmsteads, roads, and other land.....	46	2.0	37	1.6
Not in farms	1,112	48.9	1,147	50.5
Grazing land ³	402	17.7	319	14.0
Forest land not grazed ⁴	335	14.7	431	19.0
Other land ⁵	375	16.5	397	17.5

¹ Comprises cropland used for crops, soil improvement crops, and idle cropland.² Includes cropland used only for pasture.³ Includes grassland, arid woodland, and shrub and other forested land grazed.⁴ Excludes forest areas in parks and most other special uses.⁵ Comprises urban, industrial, and residential areas; rural parks; wildlife refuges; highway, road, and railroad rights-of-way; ungrazed desert; rocky, barren, swamp, tundra, and other land not otherwise counted.Source: Dept. of Agriculture, Economic Research Service. In annual report, *Agricultural Statistics, 1964*.

No. 886. LAND UTILIZATION, BY OWNERSHIP: 1950 AND 1959

[In millions of acres. Includes Alaska and Hawaii. Private land includes land owned by individuals, private groups, corporations, and Indian tribal and trust lands. Public land comprises Federal, State, county, and municipal land. Highways and road rights-of-way included as public land]

MAJOR USE	1950			1959		
	Total	Private	Public	Total	Private	Public
Total land area	2,273	1,388	885	2,271	1,385	886
Cropland ¹	409	405	4	392	389	3
Pasture and grazing land ²	1,023	725	298	944	659	285
Forest and woodland not grazed.....	428	178	250	501	256	245
Special uses ³	137	34	103	157	42	115
Other land ⁴	276	46	230	277	39	238

¹ Includes all cropland except cropland used only for pasture.² Includes all grassland, woodland, and forest land used for pasture and grazing.³ Urban areas; highway, road, and railroad rights-of-way; rural parks; wildlife refuges; national defense areas; and other special uses.⁴ Comprises marshes, sand dunes, bare rock areas, ungrazed deserts, and other land not otherwise counted.

Source: Dept. of Agriculture, Economic Research Service; unpublished data.

No. 887. IRRIGATION ORGANIZATIONS—SUMMARY: 1920 TO 1959

[Data are for 17 Western States (Alaska and Hawaii excluded, except as noted) and Louisiana. Relates to multiple farm organizations only. Based on reports of management of organizations. An organization is defined as a group of two or more water users, a company, a corporation, or a governmental district or agency that operates facilities to supply water for irrigation of farm or ranch lands. It may be a formal legal arrangement or an informal cooperative arrangement]

ITEM	1920	1930	1940	1950	1959
Approximate land area ¹.....1,000 acres..	1,159,389	1,159,362	1,195,412	1,194,632	1,193,103
Farms (irrigated and nonirrigated) ¹.....number..	1,689,071	1,826,434	1,686,166	1,435,847	1,050,408
Land in all farms ¹.....1,000 acres..	490,686	555,456	613,491	701,611	717,322
Irrigation organizations:					
Organizations.....number..	(NA)	4,373	5,583	10,491	¹ 8,706
Area irrigated.....1,000 acres..	12,339	13,131	16,378	14,975	¹ 17,786
Investment in irrigation organizations.....1,000 dollars..	542,913	704,763	864,611	1,384,564	2,424,153
Increase over preceding census.....percent..	(NA)	29.8	22.7	60.1	75.0
Average per acre irrigated.....dollars..	44	54	53	92	137

NA Not available.

¹ Includes Hawaii.

Source: Dept. of Commerce, Bureau of the Census; *U.S. Census of Agriculture: 1920*, Vol. VII; 1930 and 1940, *Irrigation of Agricultural Lands*; and *U.S. Census of Agriculture: 1950*, and 1959, Vol. III.

No. 888. IRRIGATION ORGANIZATIONS—AREA IRRIGATED, 1949 AND 1959, AND CAPITAL INVESTED, 1950 AND 1959, BY STATES

[See headnote, table 887. Minus sign (—) denotes decrease]

STATE	AREA IRRIGATED				CAPITAL INVESTED			
	1949	1959		Increase, 1949 to 1959	1950	1959		Increase, 1950 to 1959
		Total	Proportion of total			Total	Proportion of total	
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>Percent</i>	<i>Percent</i>	<i>\$1,000</i>	<i>\$1,000</i>	<i>Percent</i>	<i>Percent</i>
19 States, total.....	¹ 14,975	¹ 17,786	100.0	18.8	¹ 1,384,564	¹ 2,424,153	¹ 100.0	¹ 75.0
Louisiana.....	261	186	1.0	—28.7	8,766	10,821	0.5	23.4
18 Western States, total...	¹ 14,713	17,601	99.0	¹ 19.6	¹ 1,375,798	¹ 2,413,332	¹ 99.6	¹ 75.4
Arizona.....	556	644	3.6	15.8	104,725	167,649	6.9	60.0
California.....	3,135	4,184	23.5	33.5	402,412	898,382	37.1	123.2
Colorado.....	2,400	2,670	15.0	11.3	144,704	204,537	8.4	41.3
Hawaii.....	(NA)	85	0.5	(NA)	(NA)	(NA)	(NA)	(NA)
Idaho.....	1,896	2,299	12.9	21.3	123,315	147,843	6.1	19.8
Kansas and Oklahoma...	78	106	0.6	35.9	12,854	55,166	2.3	320.2
Montana.....	1,149	1,347	7.6	17.2	72,024	96,266	4.0	33.7
Nebraska.....	508	706	4.0	39.0	41,974	55,814	2.3	33.0
Nevada.....	286	263	1.5	—8.0	16,092	17,151	0.7	6.6
New Mexico.....	384	366	2.1	—4.7	45,447	59,113	2.4	30.1
North Dakota.....	34	40	0.2	17.6	2,853	3,467	0.1	21.5
Oregon.....	739	846	4.8	14.5	60,988	70,576	2.9	15.7
South Dakota.....	68	84	0.5	23.5	5,962	9,896	0.4	60.0
Texas.....	1,043	944	5.3	—9.5	70,897	87,630	3.6	23.6
Utah.....	1,083	1,110	6.2	2.5	53,161	91,507	3.8	72.1
Washington.....	514	848	4.8	65.0	168,685	369,453	15.2	119.0
Wyoming.....	840	1,058	5.9	26.0	49,707	78,883	3.3	58.7

NA Not available.

¹ Excludes Hawaii.

Source: Dept. of Commerce, Bureau of the Census; *U.S. Census of Agriculture: 1950*, and 1959, Vol. III.

NO. 889. IRRIGATED LAND IN FARMS, BY STATES: 1944 TO 1959

In 1944 and 1949, figures for acres irrigated represent total land in irrigated farms; in 1954 and 1959, irrigated cropland harvested plus irrigated pasture. For composition of regions, see fig. I, p. XII. See *Historical Statistics, Colonial Times to 1867*, series J 84-85, for U.S. totals]

STATE	FARMS REPORTING				ACRES IRRIGATED			
	1944	1949	1954	1959	1944	1949	1954	1959
U.S. ¹	288,195	306,219	320,236	307,783	20,539,470	25,904,873	29,552,155	33,162,978
The North.....	12,448	18,348	27,648	36,273	861,979	1,258,321	1,925,423	3,350,861
The South.....	29,008	39,087	57,185	63,011	2,372,296	4,552,481	7,102,185	7,733,403
The West ¹	246,739	248,784	235,403	208,499	17,305,195	20,094,071	20,524,547	22,023,714
New England.....	922	1,581	2,017	1,618	12,153	31,450	38,395	30,651
Maine.....	3	123	87	133	100	2,299	1,097	2,214
New Hampshire.....	10	51	61	76	63	622	942	1,249
Vermont.....	2	22	55	72	6	303	689	1,612
Massachusetts.....	874	1,053	1,366	1,093	11,355	18,507	22,683	10,999
Rhode Island.....	9	52	43	34	133	1,631	1,009	406
Connecticut.....	24	280	405	205	496	8,088	11,975	5,171
Middle Atlantic.....	1,415	2,208	4,333	4,430	30,792	54,616	135,886	148,393
New York.....	646	888	1,675	1,741	10,316	19,248	59,024	87,997
New Jersey.....	675	1,033	1,775	1,902	11,712	28,117	58,912	73,873
Pennsylvania.....	94	287	883	787	8,764	7,251	17,950	16,523
East North Central.....	1,206	2,110	3,509	3,934	12,795	36,237	75,578	111,376
Ohio.....	463	458	847	575	4,178	5,706	15,379	11,072
Indiana.....	123	164	443	480	830	5,339	11,738	17,237
Illinois.....	47	139	266	332	368	1,510	6,789	10,127
Michigan.....	347	995	1,408	1,909	2,850	13,901	23,473	40,178
Wisconsin.....	226	354	545	638	4,569	9,781	18,199	31,882
West North Central.....	8,905	12,449	17,789	26,291	806,239	1,136,018	1,675,564	3,066,441
Minnesota.....	27	274	347	387	210	4,235	9,207	14,991
Iowa.....	54	76	132	313	1,197	1,386	2,396	18,181
Missouri.....	118	142	752	590	1,113	2,089	32,998	29,957
North Dakota.....	206	304	399	471	22,814	35,294	37,672	47,656
South Dakota.....	708	807	923	1,002	52,895	78,069	90,371	115,629
Nebraska.....	7,156	9,680	12,500	18,936	631,762	879,259	1,171,369	2,077,926
Kansas.....	636	1,166	2,736	4,692	96,248	138,686	331,551	792,101
South Atlantic.....	4,199	6,516	11,660	18,924	224,446	381,044	536,195	599,844
Delaware.....	3	10	81	156	22	404	5,553	15,533
Maryland.....	8	30	235	328	287	697	8,344	11,174
District of Columbia.....	16	2	(X)	(X)	45	13	(X)	(X)
Virginia.....	31	71	763	1,996	1,419	2,817	21,805	31,101
West Virginia.....	11	9	62	66	42	40	1,381	1,115
North Carolina.....	19	96	2,704	8,637	229	2,083	25,423	65,748
South Carolina.....	5	84	748	1,998	62	6,408	22,009	24,852
Georgia.....	14	139	1,268	2,194	423	3,161	28,873	35,700
Florida.....	4,092	6,075	5,799	4,249	221,917	365,421	427,807	413,626
East South Central.....	211	180	4,475	3,253	1,113	6,950	185,130	136,627
Kentucky.....	34	67	1,220	1,130	230	485	13,434	8,605
Tennessee.....	21	35	1,094	1,005	393	1,012	22,548	10,979
Alabama.....	163	34	452	328	487	867	16,058	17,357
Mississippi.....	3	44	1,703	790	3	5,086	182,490	99,686
West South Central.....	24,598	32,391	41,050	40,834	2,146,737	4,164,487	6,380,860	7,049,932
Arkansas.....	2,229	3,060	6,218	5,652	285,965	422,107	587,863	711,812
Louisiana.....	7,185	7,438	6,897	4,817	535,619	670,775	707,818	484,850
Oklahoma.....	74	466	1,020	2,481	2,237	34,071	108,151	197,632
Texas.....	15,110	21,427	20,315	27,884	1,320,216	3,131,534	4,707,028	5,655,638
Mountain.....	127,963	122,280	112,231	96,094	10,703,164	11,642,484	11,297,997	12,094,712
Montana.....	12,997	13,457	13,114	11,935	1,556,480	1,716,792	1,890,671	1,874,620
Idaho.....	28,671	29,413	28,218	25,383	2,026,280	2,137,237	2,324,671	2,576,580
Wyoming.....	7,793	7,831	7,130	6,412	1,353,873	1,431,787	1,262,632	1,469,911
Colorado.....	28,064	27,121	23,355	20,312	2,698,679	2,872,548	2,262,921	2,634,757
New Mexico.....	14,299	12,691	11,690	8,850	534,640	655,287	649,615	731,835
Arizona.....	9,634	7,822	6,809	5,391	736,027	963,560	1,177,407	1,152,450
Utah.....	23,543	21,126	19,406	16,701	1,124,081	1,137,995	1,072,682	1,061,663
Nevada.....	3,072	2,819	2,509	2,110	674,204	727,498	567,498	542,976
Pacific¹.....	118,776	126,504	123,172	112,405	6,602,031	8,451,587	9,316,550	9,328,002
Washington.....	15,674	16,928	18,844	19,292	1,520,153	1,509,035	1,778,135	1,006,969
Oregon.....	15,697	17,063	18,826	17,724	1,129,050	1,306,810	1,490,366	1,384,284
California.....	87,205	90,755	84,502	74,139	4,952,819	6,438,324	7,048,049	7,395,570
Hawaii.....	(NA)	1,168	(NA)	1,261	(NA)	117,418	(NA)	141,179

NA Not available. X Not applicable.

¹ Excludes Alaska.

Source: Dept. of Commerce, Bureau of the Census; *U.S. Census of Agriculture: 1954*, and 1959. Vol. II.

No. 890. FEDERAL BUREAU OF RECLAMATION IRRIGATION PROJECTS: 1963

(In thousands. Detail may not add to State totals; listing includes only projects (and divisions of Mo. River Basin Project) with total irrigable acreage of 25,000 and over. See also headnote, table 891)

STATE AND PROJECT	FULL IRRIGATION SERVICE LANDS			SUPPLEMENTAL AND TEMPORARY IRRIGATION SERVICE LANDS ¹		
	Irrigable acreage	Irrigated acreage	Gross crop value	Irrigable acreage	Irrigated acreage	Gross crop value
Total	4,418	3,612	\$659,246	4,369	3,806	\$704,368
Arizona.....	397	278	110,538	96	82	19,381
Gila.....	103	80	21,868	-	-	-
Salt River.....	238	148	63,681	96	82	19,381
Yuma ¹	52	46	34,022	-	-	-
California.....	764	625	197,346	1,373	1,063	355,239
Boulder Canyon.....	609	488	171,561	-	-	-
Cachuma.....	1	(Z)	39	35	12	8,025
Central Valley.....	39	33	9,554	1,195	947	289,136
Klamath ¹	81	74	11,832	-	-	-
Santa Maria.....	-	-	-	35	31	28,115
Solano.....	-	-	-	66	44	10,834
Yuma ¹	15	11	2,933	-	-	-
Colorado.....	111	89	9,908	840	820	111,673
Colorado-Big Thompson.....	-	-	-	720	720	103,455
Grand Valley.....	35	26	3,475	8	7	2,629
Pine River ¹	-	-	-	41	35	1,917
Uncompahgre.....	76	63	6,433	-	-	-
Idaho.....	493	439	51,356	1,125	1,087	118,996
Boise ¹	223	194	23,950	165	153	22,067
Minidoka.....	217	197	21,644	948	904	94,236
Owyhee ¹	33	31	3,596	-	-	-
Kansas.....	63	42	3,700	-	-	-
Mo. River Basin, Bostwick Division ¹	36	25	2,238	-	-	-
Montana.....	341	275	15,826	-	-	-
Huntley.....	27	24	1,664	-	-	-
Lower Yellowstone ¹	35	30	3,487	-	-	-
Milk River.....	120	94	3,885	-	-	-
Shoshone ¹	(Z)	(Z)	3	-	-	-
Sun River.....	91	69	2,827	-	-	-
Nebraska.....	274	249	28,550	125	118	17,004
Missouri River Basin:						
Bostwick Division ¹	23	20	1,831	-	-	-
Frenchman-Cambridge Division.....	51	45	4,375	10	9	623
Oregon Trail Div., Glendo Unit ¹	-	-	-	23	21	3,103
North Platte ¹	172	163	20,992	92	89	13,278
Nevada.....	73	59	4,695	68	46	8,455
Humboldt.....	-	-	-	40	27	2,335
Newlands.....	73	59	4,695	-	-	-
Truckee Storage.....	-	-	-	29	20	1,121
New Mexico.....	306	204	37,218	1	1	21
Carlsbad.....	25	19	3,507	-	-	-
Middle Rio Grande.....	122	51	4,968	-	-	-
Pine River ¹	-	-	-	1	1	21
Rio Grande ¹	102	87	25,464	-	-	-
Tucumanari.....	41	37	2,577	-	-	-
North Dakota.....	30	26	2,569	-	-	-
Lower Yellowstone ¹	18	16	1,043	-	-	-
Oklahoma: W. C. Austin.....	48	43	7,043	-	-	-
Oregon.....	350	312	37,552	132	119	13,870
Boise ¹	2	1	106	-	-	-
Deschutes.....	50	47	7,928	51	47	3,066
Klamath ¹	139	123	12,345	-	-	-
Owyhee ¹	72	67	11,472	13	12	4,313
Rogue River Basin.....	-	-	-	29	23	3,681
Umatilla.....	18	12	722	13	11	1,819
Vale.....	32	29	2,480	-	-	-
South Dakota.....	69	64	3,909	-	-	-
Beile Fourche.....	67	54	3,212	9	5	146
Texas.....	76	61	18,122	29	17	3,719
Rio Grande ¹	76	61	18,122	18	11	3,169
Utah.....	17	13	1,210	354	283	24,973
Moon Lake.....	-	-	-	76	61	1,768
Provo River.....	-	-	-	48	41	6,155
Strawberry Valley.....	17	13	1,210	27	23	1,934
Weber River.....	-	-	-	109	90	9,446
Washington.....	753	612	112,063	182	154	36,092
Columbia Basin.....	459	370	57,123	-	-	-
Yakima.....	280	234	52,468	182	154	36,092
Wyoming.....	263	221	17,661	36	32	2,799
Mo. River Basin:						
Oreg. Trail Div., Glendo Unit ¹	-	-	-	9	7	750
North Platte ¹	54	53	6,398	16	16	1,615
Riverton.....	87	50	2,756	-	-	-
Shoshone ¹	54	77	6,127	-	-	-

¹ Entry represents zero. Z Less than 500 acres.¹ See footnote 1, table 891.

¹ Project serves area in 2 States as follows: Yuma—Ariz. and Calif.; Klamath—Calif. and Oreg.; Pine River—Calif. and N. Mex.; Boise and Owyhee—Idaho and Oreg.; Mo. River Basin, Bostwick Div.—Kans. and Nebr.; Lower Yellowstone—Mont. and N. Dak.; Shoshone—Mont. and Wyo.; Mo. River Basin, Oregon Trail Div. (Glendo Unit)—Nebr. and Wyo.; North Platte—Nebr. and Wyo.; Rio Grande—N. Mex. and Tex.

Source: Dept. of the Interior, Bureau of Reclamation; 1963 Crop Report and Related Data, Federal Reclamation Projects.

No. 891. FEDERAL BUREAU OF RECLAMATION IRRIGATION PROJECTS—ACREAGE AND CROP VALUE: 1909 TO 1963

Acres in thousands; value in millions of dollars. "Full irrigation service" applies to irrigable land receiving its sole irrigation supply through Bureau-constructed facilities and to previously irrigated land in non-Federal projects where a substantial part of the facilities was constructed, rehabilitated, or replaced by the Bureau; "supplemental and temporary irrigation service" applies to irrigable land receiving irrigation water through Bureau projects in addition to supply from nonproject sources and to land for which water is delivered under temporary arrangements. For 17 Western States included, see table 890]

YEAR	ENTIRE AREA			FULL IRRIGATION SERVICE LANDS			SUPPLEMENTAL AND TEMPORARY IRRIGATION SERVICE LANDS ¹		
	Irrigable acreage	Irrigated acreage	Gross crop value	Irrigable acreage	Irrigated acreage	Gross crop value	Irrigable acreage	Irrigated acreage	Gross crop value
1909.....	731	411	12	731	411	12	-	-	-
1919.....	2,648	2,104	183	1,646	1,194	89	1,002	910	64
1929.....	3,402	2,718	161	1,964	1,497	88	1,438	1,221	73
1939.....	3,890	3,141	114	2,295	1,752	68	1,595	1,389	46
1949.....	5,679	4,821	516	3,207	2,046	313	2,472	2,175	203
1950.....	6,025	5,077	578	3,805	2,716	311	2,720	2,361	267
1955.....	7,368	6,262	828	3,826	3,163	429	3,542	3,099	399
1960.....	8,171	6,900	1,158	4,326	3,488	581	3,845	3,412	577
1962.....	8,597	7,186	1,223	4,385	3,530	604	4,212	3,656	619
1963.....	8,787	7,418	1,364	4,418	3,612	659	4,369	3,806	705

- Entry represents zero. ¹ Includes service under Warren Act and special contracts to lands which are usually located outside project proper and largely unclassified as to irrigability.

Source: Dept. of the Interior, Bureau of Reclamation; *Crop Report and Related Data, Federal Reclamation Projects*.

No. 892. FARM DRAINAGE—COST FOR ALL DRAINAGE STATES: 1940 TO 1959

[Excludes Alaska and Hawaii]

ITEM	All drainage States, cost (\$1,000)	30 STATES ¹		10 States, cost ² (\$1,000)
		Number of enterprises reporting	Cost (\$1,000)	
Construction and operation and maintenance:				
1940 to 1949.....	179,034	3,426	110,232	68,802
1950 to 1959.....	416,876	5,089	291,385	125,491
New drainage works:				
1940 to 1949.....	23,872	983	16,288	7,584
1950 to 1959.....	185,689	2,898	147,053	38,636

¹ For 1960 Census, 29 States; largely States with organized drainage districts and other corporate and private enterprises. See text, p. 612. ² Largely county-drain States.

Source: Dept. of Commerce, Bureau of the Census; *U.S. Census of Agriculture: 1959*, Vol. IV.

No. 893. NUMBER AND AREA OF DRAINAGE ENTERPRISES CLASSIFIED BY SIZE GROUPS 1930 TO 1960

[Excludes Alaska and Hawaii]

SIZE GROUP	Number of enterprises, 1960	AREA OF ENTERPRISES ¹ (1,000 acres)						
		All drainage States			30 States ²			
		1930	1940	1950	1930	1940	1950	1960
Total.....	8,461	128,495	132,828	99,098	41,644	45,207	54,618	47,189
Under 100 to 499 acres.....	-	7,849	9,065	-	183	244	604	-
500 to 999 acres.....	2,847	11,130	11,235	1,951	910	954	1,098	1,622
1,000 to 1,999 acres.....	2,081	34,074	14,558	2,831	4,999	1,726	1,962	2,459
2,000 to 4,999 acres.....	1,588		20,511	4,883		3,961	4,102	4,401
5,000 to 9,999 acres.....	728	15,865	18,388	5,082	4,485	4,543	4,628	4,631
10,000 to 19,999 acres.....	499	35,076	18,964	6,963	14,769	6,042	6,004	5,974
20,000 to 49,999 acres.....	320		20,142	9,795		10,048	7,921	7,617
50,000 to 99,999 acres.....	152	11,404	10,760	10,631	6,304	6,816	6,085	6,091
100,000 to 199,999 acres.....			5,925			3,794	3,566	
200,000 to 499,999 acres.....	246	10,219	3,155	56,912	10,014	2,955	6,576	14,394
500,000 acres and over.....		3,378	4,124			4,124	12,172	

- Entry represents zero.

¹ Sum of areas in individual enterprises without deduction for area in more than 1 enterprise (overlapped).

² For 1960 Census, 29 States; largely States with organized drainage districts and other corporate and private enterprises. See text, p. 612.

Source: Dept. of Commerce, Bureau of the Census; *U.S. Census of Agriculture: 1960*, Vol. IV.

No. 894. GROWTH OF CONSERVATION DISTRICTS: 1940 TO 1964

[For years ending June 30. Includes Alaska, Hawaii, Puerto Rico, and Virgin Islands. Beginning 1945, includes wind-erosion districts and grazing districts. Beginning 1950, includes Imperial Irrigation District, Calif. Beginning 1960, includes Elephant Butte Irrigation District, N. Mex.]

YEAR	DISTRICTS ORGANIZED ¹		TOTAL AREA IN DISTRICTS		DISTRICTS WITH SUPPLEMENTAL MEMORANDUM ²	
	Each year	Cumulative total	New districts and additions	Cumulative total	Each year	Cumulative total
	Number	Number	1,000 acres	1,000 acres	Number	Number
1940.....	153	314	101,306	189,752	120	233
1945.....	232	1,346	120,388	740,859	221	1,204
1950.....	121	2,285	74,721	1,253,484	133	2,207
1955.....	56	2,674	43,478	1,484,974	63	2,644
1960.....	6	2,887	10,004	1,671,973	23	2,837
1961.....	33	2,900	17,633	1,689,605	6	2,843
1962.....	29	2,929	16,174	1,705,780	17	2,860
1963.....	13	2,942	13,077	1,718,857	38	2,898
1964.....	29	2,971	20,351	1,739,208	10	2,908

¹ Totals at end of each year are net, including corrections and adjustments made during year.

² A basic "memorandum of understanding" is signed for any Dept. of Agriculture assistance; a supplemental memorandum is signed for assistance from the Soil Conservation Service.

Source: Dept. of Agriculture, Soil Conservation Service; *Report of Administrator of Soil Conservation Service*, and unpublished data.

No. 895. SOIL CONSERVATION DISTRICTS—SUMMARY, BY STATES AND OTHER AREAS: CUMULATIVE TO JUNE 30, 1964

[See text, p. 612]

STATE OR OTHER AREA	Dis- tricts orga- nized ¹	APPROXIMATE AREA AND FARMS WITHIN ORGANIZED DISTRICTS			STATE OR OTHER AREA	Dis- tricts orga- nized ¹	APPROXIMATE AREA AND FARMS WITHIN ORGANIZED DISTRICTS		
		Total area	Farms and ranches	Land in farms			Total area	Farms and ranches	Land in farms
Total...	Num- ber 2,971	1,000 acres 1,739,208	Number 3,678,755	1,000 acres 1,059,553		Num- ber	1,000 acres	Number	1,000 acres
U.S.....	2,953	1,736,938	3,624,485	1,057,697	Mont. ²	63	91,541	28,755	62,386
Ala.....	62	32,678	115,610	16,530	Nebr.....	87	48,412	90,475	47,589
Alaska.....	11	6,005	1,270	1,130	Nev.....	36	65,317	3,116	8,151
Ariz.....	38	57,191	6,672	26,466	N.H.....	10	5,769	6,542	1,124
Ark.....	76	33,599	95,009	16,475	N.J.....	14	4,813	15,458	1,379
Calif. ³	163	70,472	104,575	26,973	N. Mex. ⁴	57	67,323	16,897	45,163
Colo.....	97	55,793	41,485	34,730	N.Y.....	48	25,669	76,930	12,765
Conn.....	8	3,135	8,292	884	N.C.....	84	28,691	190,567	15,886
Del.....	3	1,266	5,207	762	N. Dak.....	71	44,568	55,041	41,394
Fla.....	60	30,706	45,924	16,252	Ohio.....	88	24,857	140,373	18,507
Ga.....	27	37,268	106,347	19,664	Okla.....	87	44,180	94,675	35,802
Hawaii.....	15	4,021	4,355	2,865	Oreg.....	61	44,875	50,251	19,680
Idaho.....	54	48,610	32,370	14,400	Pa.....	62	27,748	100,594	11,805
Ill.....	98	33,191	163,657	30,148	R.I.....	3	677	1,395	138
Ind.....	87	21,620	119,636	19,122	S.C.....	45	19,374	78,171	9,149
Iowa.....	100	33,831	174,707	33,831	S. Dak.....	68	46,672	53,390	43,074
Kans.....	105	52,526	104,345	50,153	Tenn.....	95	26,727	157,638	16,081
Ky.....	121	25,069	150,984	17,030	Tex.....	182	165,960	226,165	139,626
La.....	26	27,939	73,950	10,301	Utah.....	43	51,391	17,809	12,675
Maine.....	16	17,472	15,237	3,077	Vt.....	13	5,931	12,099	2,945
Md.....	24	6,319	25,121	3,456	Va.....	31	25,002	98,890	13,166
Mass.....	15	5,000	11,145	1,142	Wash.....	70	40,848	52,465	18,491
Mich.....	79	32,436	105,669	13,979	W. Va.....	14	15,411	44,011	6,062
Minn.....	87	43,847	140,928	30,145	Wis.....	71	35,011	131,215	21,156
Miss.....	74	30,223	138,142	18,630	Wyo.....	45	47,213	10,147	27,915
Mo.....	59	22,841	90,729	17,443	P.R.....	17	2,185	53,515	1,792
					V.I.....	1	85	755	64

¹ For specific procedure on organization of soil conservation districts, see respective State soil conservation district law. By provision of most State district laws, State soil conservation committee has responsibility for organization of districts. Local district governing bodies administer affairs of each individual district.

² Includes Imperial Irrigation District.

³ Includes 4 grass conservation districts.

⁴ Includes Elephant Butte Irrigation District.

Source: Dept. of Agriculture, Soil Conservation Service; annual report, *Soil Conservation Districts*, and unpublished data.

**NO. 896. COMMERCIAL FERTILIZERS—QUANTITIES CONSUMED AND AVERAGE
PRIMARY PLANT NUTRIENT CONTENT: 1940 TO 1963**

[For years beginning July 1, except as noted. Includes Alaska, Hawaii, and Puerto Rico. Includes fertilizers distributed by Government agencies. See *Historical Statistics, Colonial Times to 1957*, series K 160, for related but not comparable data]

YEAR	ALL FERTILIZERS ¹				MIXED FERTILIZERS				Other fertilizers, ² quantity
	Quantity	Nitrogen	Phosphoric oxide	Potash	Quantity	Nitrogen	Phosphoric oxide	Potash	
	1,000 tons	Percent	Percent	Percent	1,000 tons	Percent	Percent	Percent	1,000 tons
1940 ³	8,556	4.9	10.7	5.1	5,513	3.8	9.6	6.5	100
1950.....	20,345	6.1	10.4	6.8	13,978	4.2	11.0	9.0	646
1955.....	21,404	9.0	10.5	8.8	14,776	5.4	12.1	11.2	790
1956.....	21,766	9.8	10.6	8.9	14,708	5.7	12.4	11.4	943
1957.....	21,576	10.6	10.6	9.0	14,353	6.0	12.5	11.7	940
1958.....	24,085	11.1	10.7	9.1	16,089	6.2	12.7	11.9	1,223
1959.....	23,499	11.7	11.0	9.2	15,650	6.5	13.0	12.1	1,378
1960.....	24,374	12.4	10.9	8.9	15,735	6.8	13.2	12.0	1,194
1961.....	25,305	13.3	11.1	9.0	16,205	7.1	13.7	12.2	1,310
1962.....	27,386	14.4	11.2	9.1	17,157	7.4	14.4	12.5	1,458
1963 (prel.)..	29,256	15.0	11.5	9.3	18,078	7.7	14.9	12.6	1,475

¹ Products containing primary nutrients.

² Products not guaranteed to contain 1 or more primary nutrients. Includes gypsum. Excludes liming materials.

³ Calendar year.

Source: Dept. of Agriculture, Agricultural Research Service. In annual report, *Agricultural Statistics*.

NO. 897. ACREAGE TREATED AND MATERIALS DISPENSED BY AIRCRAFT, 1952 TO 1962, AND BY TYPE OF ACTIVITY, 1962

[Excludes Alaska and Hawaii]

YEAR AND TYPE OF ACTIVITY	Acres treated (1,000)	MATERIALS DISPENSED		Flight hours of aircraft employed
		Dry (1,000 lb.)	Liquid (1,000 gal.)	
1952.....	37,421	738,915	49,298	707,277
1953.....	39,396	664,689	78,949	722,318
1954.....	36,969	628,257	90,848	672,226
1955.....	50,157	755,338	78,431	851,960
1956.....	51,938	531,688	84,803	802,500
1957.....	61,255	655,031	95,333	865,800
1959.....	50,891	592,062	113,086	879,750
1960.....	51,978	632,022	120,278	889,100
1961.....	54,978	658,538	140,454	855,177
1962				
Total.....	64,828	709,501	141,269	949,408
Insect control.....	41,822	141,805	90,094	544,140
Crops, orchards, rangeland, soils.....	31,008	126,166	81,962	497,296
Forests.....	2,990	3,064	2,831	6,503
Towns, cities, adjacent areas.....	7,824	12,575	5,301	40,341
Fertilization.....	3,958	408,977	3,004	87,471
Defoliation.....	4,343	14,704	21,841	93,400
Seeding.....	1,993	133,059	-	44,260
Weed control.....	8,037	559	15,296	123,987
Brush control.....	1,719	-	7,116	29,829
Plant disease control.....	1,051	9,103	8,005	20,386
Rodent control.....	236	1,047	399	3,298
Other.....	1,669	247	514	2,687

- Entry represents zero.

Source: Federal Aviation Agency; *FAA Statistical Handbook of Aviation, Aircraft in Agriculture, 1961*, and *FAA Survey of Aerial Application Activities in 1962*.

No. 898. MORTGAGED FARMS—NUMBER, ACREAGE, VALUE, AND INDEBTEDNESS, BY TENURE AND REGION: 1940 TO 1961
 [See also *Historical Statistics, Colonial Times to 1967*, series K 53-60]

REGION AND TENURE	FARMS			LAND IN FARMS			VALUE OF FARMS (LAND AND BUILDINGS)			MORTGAGE DEBT				Equity per mortgaged farm
	Total number (1,000)	Mortgaged farms		All farms (1,000 acres)	Mortgaged farms		All farms (mil. dol.)	Mortgaged farms		Total (mil. dol.)	Ratio to value of mortgaged farms (percent)	Debt per acre	Debt per farm	
		Number (1,000)	Per-cent of total		Acres (1,000)	Per-cent of total		Amount (mil. dol.)	Per-cent of total					
U.S., all tenures ¹	6,097	2,364	38.8	1,060,852	457,374	43.1	33,642	15,874	47.2	6,586	41.5	\$14.40	\$2,786	\$3,299
1940	5,382	1,460	27.5	1,153,565	303,610	26.2	74,705	22,819	23.0	5,579	25.0	18.38	3,769	11,125
1950	4,783	1,460	30.1	1,160,044	346,887	30.1	106,877	38,282	37.0	9,066	26.3	26.00	(NA)	(NA)
1961	3,704	(NA)	32.2	1,120,188	360,339	32.2	106,877	46,623	37.1	12,812	26.3	35.53	(NA)	(NA)
Full owners	3,084	1,278	41.4	382,088	180,452	47.2	15,297	7,887	51.6	3,353	42.5	18.58	2,623	3,547
1940	3,040	894	28.9	415,970	133,345	32.3	32,660	17,273	34.5	3,116	27.6	23.03	3,485	9,123
1950	2,745	799	33.1	397,214	149,111	37.6	44,007	17,626	40.1	4,720	26.8	31.65	5,191	14,240
1961	2,116	732	34.6	346,478	138,102	39.6	49,242	21,460	43.6	5,899	27.5	42.70	8,068	21,240
Part owners (owned portion only)	615	336	54.7	144,839	93,892	64.9	3,584	2,358	66.2	1,106	46.9	11.78	3,287	3,724
1940	825	281	34.1	228,304	90,079	39.5	11,440	3,584	40.1	1,179	25.7	13.08	4,187	12,103
1950	898	368	42.4	251,031	117,087	44.9	18,963	9,087	47.9	2,312	25.4	19.75	6,278	18,397
1961	810	388	47.9	265,575	130,525	51.4	25,843	14,221	55.0	3,970	27.9	29.08	10,228	26,412
Tenants and managers and rented portion of part-owner farms	2,398	749	31.2	534,115	183,040	34.3	14,780	5,628	39.1	2,127	37.8	11.62	2,840	4,674
1940	1,468	305	20.8	511,291	75,188	15.3	30,574	6,190	20.2	1,284	20.7	16.43	4,213	16,085
1950	1,778	(NA)	32.5	501,798	82,489	16.4	43,607	9,570	21.9	2,034	21.3	24.66	(NA)	(NA)
1961	1,170	(NA)	17.0	506,105	85,902	17.0	55,916	12,952	23.2	2,943	22.7	34.26	(NA)	(NA)
The North, all tenures	2,580	1,128	43.7	435,088	191,630	44.0	18,909	9,026	47.7	4,122	45.7	21.51	3,655	4,349
1940	2,288	726	32.0	440,828	124,320	28.2	38,048	11,315	28.7	2,986	26.4	24.02	4,113	11,470
1950	2,043	(NA)	33.4	435,555	141,427	32.5	52,086	17,424	32.5	4,494	25.8	31.78	(NA)	(NA)
1961	1,715	(NA)	34.4	421,440	144,950	34.4	60,756	21,568	35.5	6,129	28.4	42.29	(NA)	(NA)
The South, all tenures	3,007	1,003	33.4	370,168	163,471	44.2	9,716	4,221	43.4	1,502	35.6	9.19	1,497	2,710
1940	2,652	586	22.1	393,214	102,683	26.1	22,809	6,122	27.1	1,470	24.0	14.32	2,508	7,397
1950	2,317	(NA)	38.7	387,002	111,886	28.9	32,899	10,574	32.3	2,566	24.3	22.93	(NA)	(NA)
1961	1,646	(NA)	31.1	357,448	111,116	31.1	39,974	14,363	35.9	3,583	25.0	32.25	(NA)	(NA)
The West, all tenures ¹	510	233	45.7	255,596	102,273	40.0	5,016	2,626	52.4	962	36.6	9.41	4,133	7,151
1940	462	168	36.4	324,523	76,307	23.6	14,048	4,612	32.8	1,236	24.3	14.66	6,676	20,747
1950	422	(NA)	38.7	337,487	95,374	28.3	21,792	8,284	38.0	2,006	24.2	21.03	(NA)	(NA)
1961	343	(NA)	30.6	341,270	104,523	30.6	30,271	12,712	42.0	3,100	24.4	29.66	(NA)	(NA)

NA Not available. ¹ Excludes Alaska and Hawaii.

Source: Dept. of Commerce, Bureau of the Census, and Dept. of Agriculture. Economic Research Service; cooperative report, *U.S. Census of Agriculture: 1969*, Vol. V, Part 4.

No. 899. BALANCE SHEET OF AGRICULTURE: 1940 TO 1965

(In billions of dollars. As of January 1. Excludes Alaska and Hawaii)

ITEM	1940	1945	1950	1955	1960	1962	1963	1964	1965 (prel.)
Assets	52.9	94.0	131.6	162.7	199.4	208.1	215.8	223.0	230.5
Physical assets:									
Real estate.....	33.6	53.9	75.3	98.2	129.9	137.4	142.8	150.8	158.5
Non-real-estate:									
Livestock ¹	5.1	9.0	12.9	11.2	15.6	16.4	17.2	15.7	53.0
Machinery and motor vehicles.....	3.1	6.3	11.3	16.2	18.6	18.6	19.5	19.8	
Crops stored on and off farms ¹	2.7	6.7	7.6	9.6	7.8	8.7	9.2	9.8	
Household furnishings and equipment.....	4.2	5.6	8.6	10.0	9.6	9.1	8.7	8.4	
Financial assets:									
Deposits and currency.....	3.2	7.9	9.1	9.4	9.1	8.8	9.2	9.2	19.0
United States savings bonds.....	.2	3.4	4.7	5.0	4.7	4.5	4.4	4.2	
Investments in cooperatives.....	.8	1.2	2.1	3.1	4.1	4.6	4.8	5.1	
Claims	52.9	94.0	131.6	162.7	199.4	208.1	215.8	223.0	230.5
Liabilities	10.0	8.3	12.4	17.6	24.9	28.7	31.8	34.9	37.8
Real estate debt.....	6.6	4.9	5.6	8.2	12.1	13.9	15.2	16.8	18.7
Non-real-estate debt to									
Commodity Credit Corpora-									
tion ².....	.4	.7	1.7	2.2	1.2	1.9	2.1	1.9	1.5
Other reporting institutions ³	1.5	1.6	2.8	4.0	6.7	7.5	8.5	9.5	17.6
Nonreporting creditors ⁴	1.5	1.1	2.3	3.2	4.9	5.4	6.0	6.7	
Proprietors' equities.....	42.9	85.7	119.2	145.1	174.6	179.4	184.0	188.1	192.7

¹ Beginning 1962, excludes horses and mules.² Includes all crops held on farms and crops held off farms by farmers as security for Commodity Credit Corporation loans. The latter totaled \$1,032 million on Jan. 1, 1964.³ Nonrecourse CCC loans secured by crops owned by farmers are included as assets in this balance sheet.⁴ Loans of all operating banks, production credit associations, and Farmers Home Administration, and discounts of Federal intermediate credit banks for agricultural credit corporations and livestock loan companies.⁵ Loans and credits extended by dealers, merchants, finance companies, individuals, and others. Estimates based on fragmentary data.Source: Dept. of Agriculture, Economic Research Service; *The Balance Sheet of Agriculture*.

No. 900. DEBTS OF FARM OPERATORS AND LANDLORDS, BY ECONOMIC CLASS OF FARM: 1960

(Excludes Alaska and Hawaii. Estimates based on information obtained from a sample of farms during fall of 1960. For discussion of sampling variability, see source)

ECONOMIC CLASS (value of farm products sold)	All farms (1,000)	FARMS WITH DEBT		OPERATORS WITH DEBT			LANDLORDS WITH DEBT		
		Number (1,000)	Percent of all farms	Number (1,000)	Total debt (mil. dol.)	Debt per oper- ator	Number (1,000)	Total debt (mil. dol.)	Debt per land- lord
Total	3,253	2,006	61.7	1,898	16,798	\$8,850	481	3,099	\$6,443
Commercial farms.....	2,265	1,529	67.5	1,440	15,165	10,531	428	2,896	6,766
\$50 to \$2,499.....	307	163	53.0	145	303	2,092	34	49	1,439
\$2,500 to \$4,999.....	543	315	58.2	295	1,248	4,230	64	170	2,649
\$5,000 to \$9,999.....	591	411	69.6	390	2,749	7,048	109	474	4,353
\$10,000 to \$19,999.....	490	377	76.8	360	3,929	10,913	122	827	6,725
\$20,000 to \$39,999.....	228	179	78.7	170	3,017	17,746	55	787	12,104
\$40,000 and over.....	106	84	79.4	80	3,919	48,992	33	589	17,854
Other farms.....	988	477	48.3	458	1,633	3,566	53	203	3,834

Source: Dept. of Commerce, Bureau of the Census; *U.S. Census of Agriculture: 1959*, Vol. V.

No. 901. FARM INCOME AND EXPENSES: 1940 TO 1964

[In millions of dollars. Excludes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1867*, series K 81, K 122-128, and K 159]

ITEM	1940	1950	1955	1960	1961	1962	1963	1964
Realized gross income.....	11,059	32,271	33,138	37,915	39,586	41,069	42,073	42,100
Cash receipts.....	9,105	28,744	29,719	34,692	36,407	37,923	38,989	39,068
Crops.....	3,469	12,356	13,523	15,090	15,532	16,162	17,327	17,135
Livestock and livestock products.....	4,913	16,105	15,967	18,909	19,391	20,025	19,926	19,764
Government payments.....	723	283	229	693	1,484	1,736	1,686	2,169
Value of home consumption.....	1,210	2,063	1,678	1,248	1,174	1,074	1,014	937
Rental value of dwellings.....	744	1,464	1,741	1,975	2,006	2,072	2,120	2,185
Total expenses of agricultural production.....	6,858	19,410	21,889	26,242	27,013	28,526	29,572	29,249
Current farm operating expense (excluding hired farm labor).....	3,840	11,518	12,974	16,007	16,500	17,715	18,413	18,010
Feed purchased.....	998	3,283	3,880	4,911	5,108	5,562	6,165	5,964
Livestock purchased.....	517	2,004	1,539	2,500	2,728	3,104	2,915	2,408
Seed purchased ¹	197	518	566	509	521	520	552	555
Fertilizer and lime.....	306	975	1,185	1,305	1,362	1,464	1,559	1,878
Repairs and operation of capital items ²	1,038	2,975	3,600	3,957	3,840	3,934	3,936	3,939
Miscellaneous ³	784	1,763	2,204	2,825	2,632	3,131	3,286	3,466
Depreciation and other consumption of farm capital.....	797	2,665	3,700	4,237	4,210	4,340	4,481	4,655
Taxes on farms.....	451	919	1,141	1,500	1,694	1,682	1,761	1,834
Interest on farm mortgage debt.....	293	264	402	627	685	758	845	948
Wages paid hired farm labor ⁴	1,029	2,811	2,615	2,864	2,918	2,902	2,894	2,708
Net rent to nonfarm landlords.....	448	1,233	1,057	1,007	1,106	1,129	1,178	1,064
Realized net income of farm operators from farming.....	4,201	12,861	11,249	11,673	12,573	12,543	12,501	12,941
Adjustment for inventory changes.....	+281	+812	+215	+342	-341	+595	-614	-835
Total net income of farm operators from farming.....	4,482	13,673	11,464	12,015	12,914	13,138	13,115	12,106

¹ Includes bulbs, plants, and trees. ² Includes expenditures for repairs and maintenance of farm buildings; petroleum fuel and oil; other motor-vehicle operation, and repairs on other machinery.

³ Includes short-term interest, pesticides, ginning, electricity and telephones (business share), livestock marketing charges (excluding feed and transportation), containers, irrigation, grazing, milk hauling (beginning 1950), binding materials, tolls for stumps, horses and mules, harness and saddlery, blacksmithing and hardware, veterinary services and medicines, net insurance premiums (crop, fire, wind, and hail), and miscellaneous dairy, nursery greenhouse, sperry, and other supplies.

⁴ Includes cash wages, perquisites, and Social Security taxes paid by employers.

Source: Dept. of Agriculture, Economic Research Service; *The Farm Income Situation*.

No. 902. FARM INCOME—CASH RECEIPTS FROM FARM MARKETINGS OF CROPS AND OF LIVESTOCK AND PRODUCTS: 1940 TO 1964

[In millions of dollars. Excludes Alaska and Hawaii]

ITEM	1940	1950	1955	1960	1961	1962	1963	1964
Farm marketings.....	8,382	28,461	29,490	33,999	34,923	36,187	37,253	36,899
All crops.....	3,469	12,356	13,523	15,090	15,532	16,162	17,327	17,135
Cotton (lint and seed).....	638	2,434	2,580	2,340	2,482	2,552	2,838	2,532
Tobacco.....	242	1,061	1,225	1,154	1,825	1,321	1,269	1,414
Food grains.....	479	1,941	1,990	2,460	2,487	2,445	2,525	2,169
Oilbearing crops.....	126	935	1,131	1,364	1,647	1,803	1,973	1,996
Feed crops.....	600	2,143	2,555	3,025	2,779	2,960	3,423	3,343
Vegetables.....	559	1,436	1,683	1,935	1,866	2,029	2,013	2,272
Fruits and tree nuts.....	446	1,188	1,276	1,473	1,551	1,523	1,629	1,723
Sugar crops.....	79	216	198	251	271	308	410	386
Other ¹	300	1,002	885	1,088	1,124	1,221	1,247	1,310
All livestock and products.....	4,913	16,105	15,967	18,909	19,391	20,025	19,926	19,764
Hogs.....	836	3,214	2,694	2,869	3,136	3,150	3,031	3,006
Cattle and calves.....	1,375	5,680	5,246	7,388	7,555	8,177	8,091	7,758
Sheep and lambs.....	180	387	316	327	302	324	319	326
Wool.....	106	130	91	108	109	115	115	118
Dairy products.....	1,621	3,719	4,217	4,740	4,906	4,841	4,847	5,008
Poultry and eggs.....	828	2,839	3,224	3,282	3,186	3,230	3,312	3,335
Other ²	67	136	179	195	198	188	211	213

¹ Greenhouse and nursery products, forest products, legume and grass seeds, hops, mint, broomcorn, popcorn, hemp fiber and seed, and flax fiber.

² Horses, mules, mohair, honey, beeswax, bees, goats, rabbits, and fur animals.

Source: Dept. of Agriculture, Economic Research Service; *The Farm Income Situation*.

No. 903. FARM INCOME—CASH RECEIPTS, 1963 AND 1964, AND PRINCIPAL COMMODITIES IN ORDER OF CASH RECEIPTS, 1964, BY STATES

[In millions of dollars. Cattle include calves, and sheep include lambs]

STATE	1963	1964				Principal commodities in order of cash receipts, 1964
		Farm marketings			Govt. pay-ments	
		Total	Crops	Livestock and products		
U.S.	37,253.4	36,898.6	17,134.6	19,764.0	2,168.6	Cattle, dairy prod., hogs, cotton lint.
N.E.	699.9	740.6	264.5	476.1	7.1	
Maine	195.7	229.8	100.7	129.1	2.7	Potatoes, broilers, dairy prod., eggs.
N.H.	53.4	51.7	11.4	40.3	.7	Dairy prod., eggs, apples, cattle.
Vt.	125.8	125.8	14.4	111.4	2.4	Dairy prod., cattle, eggs, apples.
Mass.	160.4	163.3	69.2	94.1	.7	Dairy prod., eggs, tobacco, apples.
R.I.	20.4	20.6	8.8	11.8	.1	Dairy prod., eggs, potatoes, cattle.
Conn.	144.2	149.5	60.1	89.4	.6	Dairy prod., eggs, tobacco, broilers.
M.A.	1,922.5	1,952.2	636.9	1,315.3	42.2	
N.Y.	972.7	902.7	288.8	613.9	18.9	Dairy prod., cattle, eggs, apples.
N.J.	271.1	266.9	138.3	128.5	4.2	Dairy prod., eggs, tomatoes, asparagus.
Pa.	778.6	782.6	209.8	572.8	19.1	Dairy prod., eggs, cattle, broilers.
E.N.C.	6,478.8	6,417.7	2,598.6	3,819.1	354.0	
Ohio	1,056.4	1,058.8	431.2	627.6	55.9	Dairy prod., cattle, hogs, soybeans.
Ind.	1,257.0	1,202.6	528.4	674.2	77.7	Hogs, corn, soybeans, cattle.
Ill.	2,276.3	2,214.2	1,097.2	1,116.9	131.0	Corn, cattle, hogs, soybeans.
Mich.	762.4	790.9	386.0	410.3	41.5	Dairy prod., cattle, wheat, dry beans.
Wis.	1,126.7	1,151.3	161.2	990.1	47.8	Dairy prod., cattle, hogs, eggs.
W.N.C.	9,349.4	9,125.3	3,024.4	6,100.8	972.7	
Minn.	1,474.2	1,492.7	460.9	1,031.8	121.1	Cattle, dairy prod., hogs, soybeans.
Iowa	2,665.2	2,685.8	691.1	1,994.6	226.3	Cattle, hogs, corn, soybeans.
Mo.	1,192.6	1,144.8	408.6	736.1	96.1	Cattle, hogs, dairy prod., soybeans.
N.D.	674.6	633.1	420.8	212.3	107.7	Wheat, cattle, barley, flaxseed.
S.D.	661.5	675.4	175.1	500.3	67.9	Cattle, hogs, wheat, corn.
Neb.	1,315.7	1,299.4	417.5	881.9	164.9	Cattle, corn, hogs, wheat.
Kans.	1,365.7	1,194.1	450.4	743.7	188.8	Cattle, wheat, hogs, sorghum grain.
S.A.	4,338.4	4,475.8	2,710.5	1,765.3	135.8	
Del.	118.0	114.9	32.1	82.8	2.0	Broilers, soybeans, dairy prod., corn.
Md.	202.3	285.9	92.3	193.6	5.5	Broilers, dairy prod., cattle, tobacco.
Va.	480.1	499.6	249.7	249.9	14.8	Cattle, dairy prod., tobacco, eggs.
W. Va.	99.2	100.0	24.7	75.2	4.0	Cattle, dairy prod., broilers, eggs.
N.C.	1,184.7	1,236.8	866.8	396.9	35.2	Tobacco, broilers, eggs, dairy prod.
S.C.	395.7	399.8	288.0	111.7	21.4	Tobacco, cotton lint, eggs, dairy prod.
Ga.	867.4	865.8	406.8	459.1	39.4	Broilers, eggs, cotton lint, tobacco.
Fla.	900.4	973.1	750.0	223.1	13.6	Oranges, dairy prod., cattle, grapefruit.
E.S.C.	2,600.9	2,723.5	1,488.5	1,234.9	115.0	
Ky.	644.7	743.7	419.8	323.9	34.2	Tobacco, cattle, dairy prod., hogs.
Tenn.	555.2	589.0	313.5	275.5	31.2	Cotton lint, cattle, dairy prod., tobacco.
Ala.	605.6	606.7	263.1	343.5	27.5	Cotton lint, broilers, cattle, eggs.
Miss.	795.4	784.1	492.2	292.0	22.2	Cotton lint, cattle, broilers, soybeans.
W.S.C.	4,567.9	4,260.9	2,372.5	1,888.5	278.5	
Ark.	826.8	863.8	542.9	320.9	14.9	Cotton lint, soybeans, broilers, rice.
La.	496.7	468.7	308.2	160.4	22.1	Cotton lint, rice, cattle, sugarcane for sugar.
Okla.	665.3	624.1	250.7	373.3	68.0	Cattle, wheat, dairy prod., cotton lint.
Tex.	2,579.1	2,304.4	1,270.6	1,033.8	173.5	Cotton lint, cattle, sorghum grain, dairy prod.
Mt.	2,724.4	2,548.7	1,098.9	1,449.8	176.9	
Mont.	419.4	394.4	191.1	203.3	47.3	Wheat, cattle, barley, sugar beets.
Idaho	453.9	402.0	265.1	196.9	27.8	Cattle, potatoes, wheat, dairy prod.
Wyo.	162.5	154.3	28.7	125.5	10.6	Cattle, sheep, sugar beets, wool.
Colo.	671.0	653.6	190.7	469.9	57.8	Cattle, wheat, sugar beets, dairy prod.
N. Mex.	269.9	244.0	96.0	148.0	18.7	Cattle, cotton lint, dairy prod., hay.
Ariz.	537.9	446.2	282.6	163.7	5.2	Cotton lint, cattle, lettuce, dairy prod.
Utah	104.1	151.9	35.4	116.5	8.5	Cattle, dairy prod., turkeys, sheep.
Nev.	45.7	42.3	9.2	33.1	1.1	Cattle, dairy prod., hay, sheep.
Pac.	4,571.3	4,653.9	2,939.8	1,714.1	86.3	
Wash.	619.7	610.0	394.7	215.3	32.8	Wheat, dairy prod., cattle, apples.
Oreg.	424.7	423.9	245.9	178.1	19.4	Cattle, wheat, dairy prod., eggs.
Calif.	3,526.9	3,620.0	2,299.3	1,320.7	34.1	Cattle, dairy prod., cotton lint, eggs.

¹ Excludes Alaska and Hawaii.

Source: Dept. of Agriculture, Economic Research Service; *The Farm Income Situation*.

No. 904. INDEXES OF FARM PRICES, BY MAJOR GROUPS OF PRODUCTS: 1940 TO 1964

[1910-14=100. Excludes Alaska and Hawaii. Indexes cover 55 major farm products. See also *Historical Statistics, Colonial Times to 1887*, series K 129-138]

ITEM	1940	1950	1955	1960	1961	1962	1963	1964
Prices received by farmers:								
All farm products ¹	100	258	232	238	240	244	242	236
Crops ¹	90	233	231	222	227	231	237	237
Food grains.....	84	224	228	203	209	226	224	190
Feed grains and hay.....	85	193	183	151	151	153	164	168
Tobacco.....	134	402	437	500	528	530	494	490
Cotton.....	83	282	272	254	261	271	271	260
Fruits.....	81	194	202	242	246	226	279	295
Commercial vegetables.....	122	211	223	223	219	243	231	245
Oil-bearing crops.....	103	276	249	214	257	248	258	256
Livestock ¹	109	280	234	253	251	255	245	235
Meat animals.....	108	340	246	296	299	310	290	289
Dairy products.....	120	249	247	259	260	253	253	256
Poultry and eggs.....	98	186	191	160	146	145	146	142
Prices paid by farmers:								
All commodities ²	124	256	276	300	302	307	312	313
Living and production.....	122	246	259	275	276	280	283	282
Living ³	121	246	270	290	291	295	298	300
Production ⁴	123	248	251	265	266	270	273	270
Interest payable per acre.....	102	89	136	220	240	266	297	333
Taxes payable per acre.....	189	320	403	573	620	657	690	725
Wage rates for hired farm labor ⁵	129	425	516	631	641	660	677	693
Parity ratio ⁶	81	101	84	80	79	79	78	75

¹ Includes products not shown separately. ² Prices paid, including interest, taxes, and wage rates.³ All commodities bought for use in family maintenance. ⁴ All commodities bought for use in production.⁵ Simple average of quarterly indexes seasonally adjusted.⁶ Ratio of prices received to prices paid, including interest, taxes, and wage rates.Source: Dept. of Agriculture, Statistical Reporting Service. In annual report, *Agricultural Statistics*.

No. 905. FARM MARKETINGS, BY PRICE SUPPORT STATUS: 1950 TO 1964

[In millions of dollars, except percent. Excludes Alaska and Hawaii]

CROPS	TOTAL MARKET SALES				PERCENT DISTRIBUTION			
	1950	1955	1960	1964	1950	1955	1960	1964
Total.....	28,512	29,556	34,012	36,748	100.0	100.0	100.0	100.0
Under price support.....	12,205	13,564	15,196	16,412	42.8	45.9	44.7	44.7
Under mandatory support.....	10,426	11,520	12,811	13,360	36.6	39.0	37.7	36.4
Basic commodities.....	6,563	7,194	7,696	7,836	23.0	24.3	22.6	21.3
Cotton.....	2,143	2,324	2,118	2,268	7.5	7.9	6.2	6.2
Wheat.....	1,732	1,698	2,195	1,770	6.1	5.7	6.5	4.8
Corn.....	1,232	1,507	1,817	1,816	4.3	5.1	5.3	4.9
Tobacco.....	1,061	1,225	1,154	1,395	3.7	4.1	3.4	3.8
Rice.....	189	270	244	350	0.7	0.9	0.7	1.0
Peanuts.....	206	170	170	237	0.7	0.6	0.5	0.6
Nonbasic commodities.....	3,863	4,328	5,115	5,524	13.6	14.7	15.1	15.0
Dairy products.....	3,719	4,222	4,740	4,983	13.0	14.3	13.9	13.6
Wool.....	180	89	108	119	0.5	0.3	0.3	0.3
Mohair.....	10	14	22	29	(Z)	(Z)	0.1	0.1
Tung nuts.....	4	1	3	7	(Z)	(Z)	(Z)	(Z)
Sugar beets.....	-	-	190	273	-	-	0.6	0.7
Sugarcane.....	-	-	52	113	-	-	0.2	0.3
Under nonmandatory support.....	1,779	2,044	2,385	3,052	6.2	6.9	7.0	8.3
Soybeans.....	596	832	1,125	1,749	2.1	2.8	3.5	4.8
Cottonseed.....	290	244	225	262	1.0	0.8	0.6	0.7
Oats.....	229	246	199	165	0.8	0.8	0.6	0.4
Barley.....	194	238	247	257	0.7	0.8	0.7	0.7
Dry beans.....	113	124	130	138	0.4	0.4	0.4	0.4
Flaxseed.....	130	127	67	63	0.5	0.4	0.2	0.2
Sorghum grain.....	209	211	372	389	0.7	0.7	1.1	1.0
Rye.....	18	22	20	29	0.1	0.1	0.1	0.1
Not under price support.....	16,307	15,993	18,816	20,336	57.2	54.1	55.3	55.3

- Entry represents zero. Z Less than 0.05 percent.

Source: Dept. of Agriculture, Economic Research Service; *The Farm Income Situation*.

No. 906. PRICES RECEIVED AND PARITY PRICES FOR SELECTED FARM PRODUCTS: 1965

[Excludes Alaska and Hawaii]

COMMODITY	Unit	Adjusted base price ¹	Average price, March 15	Parity price based on data for March ²	Average price as percentage of parity, March
Basic commodities:					
Cotton, American upland.....	Ct. per lb.....	13.02	28.65	41.40	69
Wheat.....	Dol. per bu.....	.796	1.36	2.53	54
Rice.....	Dol. per cwt.....	2.05	5.23	6.62	80
Corn.....	Dol. per bu.....	.488	1.18	1.55	76
Peanuts.....	Ct. per lb.....	* 4.50	11.6	14.3	81
Designated nonbasic commodities:					
Milkfat, in cream.....	Ct. per lb.....	24.9	58.6	79.2	74
All milk, wholesale.....	Dol. per cwt.....	1.74	* 4.15	5.53	* 76
Wool.....	Ct. per lb.....	25.8	* 47.7	82.0	* 58
Other nonbasic commodities:					
Barley.....	Dol. per bu.....	.388	.968	1.23	79
Beans, dry edible.....	Dol. per cwt.....	2.96	7.75	9.41	82
Cottonseed.....	Dol. per ton.....	* 19.60	47.70	62.30	77
Flaxseed.....	Dol. per bu.....	1.20	2.89	3.82	76
Oats.....	Dol. per bu.....	.265	.660	.843	73
Rye.....	Dol. per bu.....	.433	.955	1.38	69
Sorghum grain.....	Dol. per cwt.....	.767	1.93	2.44	79
Soybeans.....	Dol. per bu.....	.946	2.85	3.01	95
Potatoes.....	Dol. per cwt.....	* .804	* 4.19	2.56	164
Sweetpotatoes.....	Dol. per cwt.....	1.88	6.63	5.98	111
Grapefruit ³	Dol. per box.....	* .492	* .84	1.56	54
Lemons ³	Dol. per box.....	* .725	* 2.33	2.31	123
Limes ³	Dol. per box.....	* 1.21	* 5.63	3.85	146
Oranges ³	Dol. per box.....	* 1.10	* 2.35	3.50	67
Tangerines ³	Dol. per box.....	* .950	(NA)	3.02	(NA)
Apples, for fresh use ⁴	Dol. per bu.....	.996	* 2.71	3.17	85
Beef cattle.....	Dol. per cwt.....	8.00	18.60	25.40	73
Calves.....	Dol. per cwt.....	9.17	20.60	29.20	70
All chickens, live.....	Ct. per lb.....	6.92	15.0	22.0	68
Eggs ⁵	Ct. per doz.....	14.9	30.7	47.4	* 64
Hogs.....	Dol. per cwt.....	6.67	16.30	21.20	77
Lambs.....	Dol. per cwt.....	7.92	22.30	25.20	88
Turkeys, live.....	Ct. per lb.....	10.0	22.6	31.8	71

NA. Not available.

¹ Adjusted base price 1910-14 derived from 120-month, January 1955-December 1964, average by dividing by 240 percent, the 120-month average of the index of prices received by farmers, unless otherwise noted.² These parity prices are the legally applicable parity prices for April 1965.³ Adjusted base price 1910-14 derived from 10-season average prices 1955-64.⁴ Monthly average. ⁵ Seasonally adjusted price as percentage of parity price.⁶ Average local market price excluding incentive payment. ⁷ Equivalent on-tree returns for all methods of sale.⁸ Equivalent packing house—door returns for Pacific Coast States and prices as sold for other States.⁹ Average of all eggs sold by farmers, including hatching eggs and eggs sold at retail.Source: Dept. of Agriculture, Statistical Reporting Service; *Agricultural Prices*.

No. 907. COMMODITY CREDIT CORPORATION—SUMMARY: 1955 TO 1964

[In millions of dollars. As of June 30 or for years ending June 30. Beginning 1960, includes Alaska. See head-note, table 908]

ITEM	1955	1957	1958	1959	1960	1961	1962	1963	1964
Loans made.....	2,377	2,445	2,135	3,543	1,507	1,814	2,662	3,070	2,776
Loans outstanding (book value).....	2,137	1,994	1,600	2,480	1,347	1,623	2,255	2,602	2,815
Cost of acquisitions ¹	2,985	3,086	2,999	2,802	4,020	3,066	1,969	2,771	2,305
Value of commodities owned ¹	4,572	4,738	4,703	5,259	6,021	5,563	4,474	4,728	4,338
Sales and donations ¹	1,569	3,716	3,051	2,240	3,261	3,516	3,227	2,617	2,734
Price support commodities, storage and handling expense.....	235	314	327	371	476	427	393	377	365
Wheat.....	130	149	131	145	191	166	156	145	140
Corn.....	39	101	121	122	138	132	118	93	88
Other.....	66	70	75	104	147	129	119	139	137
Reseal loan storage expense ¹	20	21	22	31	53	48	71	76	79
Wheat.....	2	-	4	4	10	11	11	8	9
Corn.....	16	20	19	22	24	29	51	59	61
Other.....	2	1	1	5	19	8	9	9	9

- Entry represents zero. ¹ Price support commodities only. Data comparable for all years; take into account changes effective July 1, 1961, in accounting policy with respect to inventory cost.

Source: Dept. of Agriculture, Agricultural Stabilization and Conservation Service; unpublished data.

No. 908. COMMODITY CREDIT CORPORATION—TOTAL LOANS MADE, 1933-1964; AND LOANS OUTSTANDING, INVENTORIES, AND COST OF ACQUISITIONS, 1964

[Beginning 1960, includes Alaska. The Commodity Credit Corporation (CCC), established in 1933, is the financial organization through which farm price support is carried out by loans, purchases, and other operations. Programs now carried on by CCC include price support, storage facilities, supply, foreign purchase, commodity export, International Wheat Agreement, and other programs specifically authorized by Congress]

COMMODITY	1933-1964				1964			
	Loans made, ¹ cumulative			Realized program gains or losses ² (-)	Loans outstanding ³ (book value)	Cost of acquisitions ⁴	Inventories of commodities owned ⁵	
	Quantity		Amount				Quantity ⁶	Cost
	Unit	Pledged						
Total.....	(X)	1,000 (X)	\$1,000	\$1,000	\$1,000	\$1,000	1,000 (X)	\$1,000
			42,103,290	-12,658,995	2,814,767	2,305,010		4,338,275
Barley.....	Bu.....	832,785	762,212	-194,088	15,670	10,224	27,908	24,669
Beans, dry.....	Cwt.....	49,905	352,341	-111,730	1,630	10,589	1,426	10,516
Corn.....	Bu.....	6,927,370	7,974,614	-2,692,500	759,017	540,754	735,390	906,457
Cotton.....	Bale.....	95,943	12,458,604	-1,280,885	1,011,784	760,138	4,440	738,729
Eggs.....	Lb.....	-	-	-189,699	-	-	-	-
Fiber flax.....	Lb.....	2,579	1,237	-397	-	-	-	-
Flour, cornmeal, and related grain products.....	Lb.....	-	-	-857,137	-	152,863	4,656	228
Fruit, dried.....	Lb.....	-	-	-14,882	-	-	-	-
Fruits, canned.....	Lb.....	-	-	-1,732	-	-	-	-
Honey.....	Lb.....	39,735	4,337	-897	130	-	-	-
Milk and milk products:								
Butter.....	Lb.....	127,166	32,156	-963,724	-	165,328	183,269	106,450
Butter oil.....	Lb.....	-	-	-244,702	-	1,478	21,040	16,298
Cheese.....	Lb.....	-	-	-570,989	-	51,002	33,062	12,522
Milk, dried.....	Lb.....	-	-	-1,374,059	-	130,235	249,701	37,752
Milk, fluid.....	Lb.....	-	-	-205,503	-	26,515	-	-
Whey.....	Lb.....	91,439	3,968	-3,584	-	-	-	-
Naval stores:								
Rosin.....	Lb.....	2,475,985	127,529	1,001	30,039	-	-	-
Turpentine.....	Gal.....	51,912	20,870	-	-	-	-	-
Oats.....	Bu.....	532,971	337,492	-93,788	21,908	10,458	33,190	19,896
Oilseeds and products:								
Castor beans.....	Lb.....	-	-	-171	-	-	-	-
Cotton linters.....	Lb.....	17	809	-	-	-	-	-
Cottonseed.....	Ton.....	-	-	-118,117	-	-	-	-
Cottonseed meal.....	Lb.....	-	-	-	-	8,104	-	-
Cottonseed oil, crude.....	Lb.....	-	-	-	-	10,071	79,232	8,717
Cottonseed oil, refined.....	Lb.....	101,283	315,997	-172,469	341	33,390	10,616	31,429
Flaxseed.....	Bu.....	-	-	-	-	2,472	21,000	2,472
Linseed oil.....	Lb.....	3,319	634,143	-255,301	1,012	10,751	34	11,169
Peanuts.....	Ton.....	-	-	-11,109	-	-	-	-
Peanut butter.....	Lb.....	-	-	-	-	-	-	-
Soybeans.....	Bu.....	745,400	1,593,840	-26,607	100,735	4,702	19	41
Hemp and hemp fiber.....	Lb.....	-	-	-21,459	-	-	-	-
Hops.....	Lb.....	7,077	1,388	-964	-	-	-	-
Olive oil.....	Gal.....	1,048	2,611	-578	-	-	-	-
Peas, dry.....	Cwt.....	846	2,705	-824	-	-	-	-
Potatoes, Irish.....	Cwt.....	156,175	165,568	-478,583	-	-	-	-
Potatoes, sweet.....	Cwt.....	77	150	-135	-	-	-	-
Rice.....	Cwt.....	102,927	518,876	-228,129	147	17,778	1,590	8,359
Rye.....	Bu.....	70,569	68,505	-22,813	52	511	766	825
Seeds, miscellaneous.....	Lb.....	453,228	62,529	-38,717	-	-	-	-
Sorghum, grain.....	Bu.....	1,882,548	2,034,519	-813,674	32,278	129,126	637,585	708,806
Sugar.....	Lb.....	-	-	-16,493	-	-	-	-
Tobacco.....	Lb.....	4,404,311	2,444,508	-43,686	666,881	11,024	-	-
Tung oil.....	Lb.....	170,471	37,929	-4,734	3,618	-	-	-
Vegetable oil products.....	Lb.....	-	-	-74,839	-	5,150	2,725	408
Wheat.....	Bu.....	6,720,298	11,722,781	-1,406,534	114,510	212,347	828,861	1,683,104
Wool.....	Lb.....	322,641	150,438	-115,963	-	-	-	-
Other.....	(X)	(X)	270,684	-7,851	55,115	-	(X)	9,438

- Entry represents zero. X Not applicable.

¹ Comprises loans made directly by Commodity Credit Corporation and loans made by banks and other lending agencies under CCC. Obligations to purchase renewals and extensions of loans previously made are excluded.

² Price Support Program only. Net results of other related programs: Commodity Export Program, 1.8 billion dollar loss; Special Feed Grain and Wheat Programs, 3.4 billion dollar loss; Wartime Consumer Subsidy Program, 2.1 billion dollar loss; Cotton Equalization Program, 63 million dollar loss; Supply and Foreign Purchase Programs, 372 million dollar gain; and Emergency Feed Program, 262 million dollar loss.

³ As of June 30.

⁴ For year ending June 30. Cost of acquisitions of agricultural commodities comprises purchases under price-support, and acquisitions in settlement of price-support loans.

⁵ For unit of quantity, see first column.

Source: Dept. of Agriculture, Agricultural Stabilization and Conservation Service; unpublished data.

NO. 909. FARM-RETAIL SPREADS FOR FARM-ORIGINATED FOOD PRODUCTS BY COMMODITY GROUP: 1957 TO 1964

[In dollars, except as indicated. These estimates are for a market basket of domestic farm-originated food products purchased annually per household in 1900-01 by wage earner and clerical worker families and single persons living alone. Quantities of food valued do not change from year to year. See *Historical Statistics, Colonial Times to 1967*, series T 352-355, for 1952 market basket, totals for all foods]

COMMODITY GROUP AND VALUE	1957- 1959, average	1960	1961	1962	1963	1964 (prel.)
All farm food products:						
Retail cost ¹	983	991	997	1,006	1,013	1,015
Farm value adjusted for byproducts ²	383	383	380	384	374	373
Farm-retail spread ³	595	608	617	622	639	642
Farmer's share of consumer's dollar ⁴.....percent	39	39	38	38	37	37
Meat products:						
Retail cost ¹	285	284	286	292	286	280
Farm value adjusted for byproducts ²	154	148	148	156	143	135
Farm-retail spread ³	131	136	138	136	143	145
Farmer's share of consumer's dollar ⁴.....percent	54	52	52	53	50	48
Dairy products:						
Retail cost ¹	173	178	180	179	178	179
Farm value adjusted for byproducts ²	78	79	80	78	77	79
Farm-retail spread ³	95	99	100	101	101	100
Farmer's share of consumer's dollar ⁴.....percent	45	44	44	43	43	44
Poultry and eggs:						
Retail cost ¹	93	91	86	86	86	85
Farm value adjusted for byproducts ²	56	55	50	49	49	47
Farm-retail spread ³	37	36	36	37	37	38
Farmer's share of consumer's dollar ⁴.....percent	61	61	58	57	57	56
Bakery and cereal products:						
Retail cost ¹	148	152	154	157	159	160
Farm value adjusted for byproducts ²	31	29	31	32	32	32
Farm-retail spread ³	117	123	123	125	127	128
Farmer's share of consumer's dollar ⁴.....percent	21	19	20	20	20	20
Fruits and vegetables:						
Retail cost ¹	203	208	211	211	222	230
Farm value adjusted for byproducts ²	50	52	51	51	55	61
Farm-retail spread ³	153	156	160	160	167	169
Farmer's share of consumer's dollar ⁴.....percent	25	25	24	24	25	27
Fats and oils:						
Retail cost ¹	38	34	37	36	35	35
Farm value adjusted for byproducts ²	11	10	13	10	10	10
Farm-retail spread ³	27	24	24	26	25	25
Farmer's share of consumer's dollar ⁴.....percent	30	29	35	28	30	30
Miscellaneous:						
Retail cost ¹	42	43	44	44	46	47
Farm value adjusted for byproducts ²	7	8	8	8	8	9
Farm-retail spread ³	35	35	36	36	38	38
Farmer's share of consumer's dollar ⁴.....percent	18	18	17	18	18	18

¹ Calculated from retail prices collected by the Bureau of Labor Statistics.

² Calculated by multiplying quantities equivalent to retail purchases by official estimates of prices received by farmers, and subtracting imputed value of byproducts obtained in processing.

³ Equals difference between retail cost and farm value.

⁴ Obtained by expressing the farm value as a percentage of retail cost (based on unrounded figures).

Source: Dept. of Agriculture, Economic Research Service; *The Marketing and Transportation Situation*, February 1965.

NO. 910. FARM-OPERATOR LEVEL-OF-LIVING INDEX, BY GEOGRAPHIC DIVISIONS: 1950 AND 1959

[U.S. average, 1959=100. Excludes Hawaii. Based on percent of farms with telephones, home freezers, and automobiles; average value of land and buildings per farm; and average value of sales per farm. These indexes are not comparable with any previously published]

YEAR	United States	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
1950.....	59	73	76	77	76	38	30	47	71	83
1959.....	100	108	114	115	114	81	68	91	122	131

Source: Dept. of Agriculture, Economic Research Service; *Farm Operator Level-of-Living Indexes for Counties of the United States, 1950 and 1959, 1962*. Statistical Bulletin No. 321.

NO. 911. FARM FACILITIES AND LEVEL-OF-LIVING INDICATORS OF FARM-OPERATOR FAMILIES, 1920 TO 1959, AND BY STATES, 1959

[In thousands, except percent. Beginning 1950, based on reports for a sample of farms. For composition of regions, see fig. I, p. XII]

YEAR AND STATE	MOTORTRUCKS ON FARMS		AUTOMOBILES ON FARMS		TRACTORS ON FARMS		PERCENT OF FARMS REPORTING AS HAVING—		
	Farms report- ing	Num- ber	Farms report- ing	Num- ber	Farms report- ing	Num- ber	Tele- phone	Home food freezer	Other income, excl. value of farm sales
1920 ¹	132	139	1,980	2,146	229	246	38.7	(NA)	(NA)
1930 ¹	845	900	3,650	4,135	851	920	34.0	(NA)	(NA)
1940 ¹	944	1,047	3,542	4,144	1,410	1,567	25.0	(NA)	(NA)
1950 ¹	1,840	2,207	3,890	4,199	2,525	3,609	38.2	12.1	(NA)
1954 ¹	2,213	2,703	3,392	4,263	2,876	4,692	48.8	32.2	(NA)
1959									
U.S.	2,177	2,834	2,957	3,635	2,680	5,139	65.0	55.8	35.8
The North.....	1,055	1,314	1,545	1,934	1,504	3,124	80.8	63.2	28.1
The South.....	856	1,046	1,108	1,288	904	1,425	45.3	46.5	43.2
The West.....	266	474	304	413	272	591	80.5	62.7	39.5
New England.....	38	59	48	61	42	78	87.5	55.9	42.4
Maine.....	12	17	14	17	12	20	82.2	52.7	47.7
New Hampshire.....	5	7	5	7	5	8	85.4	57.5	52.6
Vermont.....	8	10	10	13	10	18	83.5	60.3	30.9
Massachusetts.....	7	12	9	12	8	15	94.1	51.8	42.2
Rhode Island.....	1	2	1	2	1	2	92.7	45.4	35.9
Connecticut.....	6	11	7	10	6	14	96.7	62.4	41.8
Middle Atlantic.....	117	159	173	225	171	354	86.4	65.2	38.8
New York.....	47	66	73	93	73	155	90.1	65.4	34.8
New Jersey.....	12	21	13	19	12	30	93.6	67.3	33.4
Pennsylvania.....	58	71	86	113	86	168	82.3	63.2	43.0
East North Central.....	390	450	606	759	592	1,237	81.3	67.0	33.6
Ohio.....	70	82	125	162	120	243	81.1	64.3	42.2
Indiana.....	76	88	114	140	110	225	83.1	69.5	38.2
Illinois.....	100	114	142	173	138	321	82.9	69.9	23.4
Michigan.....	64	76	102	131	102	194	80.1	64.3	45.5
Wisconsin.....	81	91	123	153	122	254	79.1	66.3	22.0
West North Central.....	510	646	718	889	699	1,455	78.4	59.8	19.7
Minnesota.....	87	103	136	171	134	287	78.4	63.5	18.4
Iowa.....	92	100	166	205	159	343	91.7	65.9	13.0
Missouri.....	96	110	134	151	128	218	66.3	49.7	37.3
North Dakota.....	48	75	51	67	52	125	65.8	68.5	8.0
South Dakota.....	39	52	52	66	51	118	72.1	62.8	10.2
Nebraska.....	64	83	85	110	82	180	80.4	63.2	10.8
Kansas.....	83	122	95	119	92	184	83.9	52.0	23.2
South Atlantic.....	286	349	417	493	331	512	44.9	48.0	43.1
Delaware.....	4	5	5	6	5	9	87.9	64.4	32.9
Maryland.....	16	21	22	28	21	43	80.1	62.3	41.2
Virginia.....	48	58	65	78	56	92	50.4	42.4	45.1
West Virginia.....	21	25	27	31	22	32	50.2	37.9	64.7
North Carolina.....	81	91	134	154	107	151	35.4	48.2	33.9
South Carolina.....	33	39	56	66	35	51	35.3	45.5	42.3
Georgia.....	61	73	76	88	63	93	44.5	53.3	44.8
Florida.....	24	36	33	42	23	40	61.2	50.6	56.1
East South Central.....	252	287	343	389	265	381	40.1	40.7	42.3
Kentucky.....	66	75	102	117	81	113	45.2	36.8	37.6
Tennessee.....	69	77	101	114	79	110	51.1	42.1	43.3
Alabama.....	55	63	67	76	54	71	34.4	41.6	47.0
Mississippi.....	61	71	73	82	53	87	26.7	42.6	42.3
West South Central.....	318	411	348	406	308	531	51.9	51.3	44.2
Arkansas.....	59	73	52	58	50	89	32.4	42.4	43.1
Louisiana.....	39	47	48	55	34	56	52.3	62.9	53.1
Oklahoma.....	70	93	72	83	67	109	61.3	48.0	42.1
Texas.....	150	198	177	211	157	278	56.0	52.7	42.6
Mountain.....	124	225	128	171	122	276	72.8	65.7	29.7
Montana.....	26	53	26	35	26	65	66.5	73.8	19.8
Idaho.....	27	44	30	38	29	62	81.6	66.7	29.6
Wyoming.....	9	16	8	11	8	22	66.4	68.8	21.9
Colorado.....	29	52	30	40	28	66	78.4	66.4	25.5
New Mexico.....	12	20	11	14	9	18	42.9	54.7	36.3
Arizona.....	6	17	6	10	5	14	69.7	63.1	39.6
Utah.....	14	19	16	20	14	24	87.2	58.7	46.6
Nevada.....	2	5	2	3	2	5	73.1	65.1	40.9
Pacific.....	142	248	176	242	150	315	86.2	60.5	46.8
Washington.....	37	60	46	61	43	78	85.5	61.1	50.1
Oregon.....	30	49	37	47	35	71	84.4	64.4	50.7
California.....	71	131	87	127	71	161	88.4	80.0	42.2
Alaska.....	(Z)	1	(Z)	(Z)	(Z)	1	52.6	66.8	53.1
Hawaii.....	3	8	4	6	2	4	70.2	37.3	64.0

NA Not available. Z Less than 500.

¹ Excludes Alaska and Hawaii.

Source: Dept. of Commerce, Bureau of the Census; U.S. Census of Agriculture: 1959, Vol. II.

No. 912. INCOME OF FARM-OPERATOR FAMILIES FROM SOURCES OTHER THAN FARM OPERATED: 1955 AND 1960

[Excludes Alaska and Hawaii. Data are estimates based on reports for only a sample of farms]

SOURCE OF INCOME	FARMS REPORTING AS PERCENT OF ALL FARMS		AMOUNT (mil. dol.)		AVERAGE PER FARM- OPERATOR FAMILY REPORTING	
	1955	1960	1955	1960	1955	1960
Total	69.9	77.9	8,006	7,416	\$2,405	\$2,926
Cash wages, salaries.....	(NA)	44.7	5,024	4,176	(NA)	2,872
Nonfarm business or professional practice.....	10.9	9.7	1,062	1,131	2,046	3,567
Custom work.....	5.7	16.0	206	243	762	467
Rental of property to others.....	5.2	16.0	651	532	(NA)	1,026
Interest, dividends, and regular payments from trust funds.....	18.7	14.1	450	314	505	684
Social Security, pensions, retirement pay, veteran payments, and annuities.....	(NA)	16.8	515	595	(NA)	1,090
Unemployment income, workmen's compensation, and old age assistance.....	(NA)	3.3		62	(NA)	564
Other ¹	(NA)	11.2	99	362	(NA)	886

NA Not available. ¹ Oil leases, soil bank payments, roomers, boarders, contributions, etc.

Source: Dept. of Commerce, Bureau of the Census; *U.S. Census of Agriculture: 1959*, Vol. V, Part 5.

No. 913. SPECIFIED FARM EXPENDITURES: 1949, 1954, AND 1959

[Beginning 1959, includes Alaska and Hawaii. Based on reports for a sample of farms]

ITEM	FARMS REPORTING		AMOUNT EXPENDED		
	Number	Percent of all farms	Total	Average per farm (based on all farms)	Average per farm reporting
	1,000		Mil. dol. (X)	Dollars (X)	Dollars (X)
All farms.....1959.....	3,708	100.0			
Specified farm expenditures.....1959.....	3,671	99.0	14,085	3,798	3,836
Machine hire and/or hired labor.....1949.....	3,548	66.0	3,030	563	854
.....1954.....	3,286	68.7	2,917	610	888
.....1959.....	(NA)	(NA)	3,426	924	(NA)
Machine hire.....1949.....	2,758	61.3	612	114	222
.....1954.....	2,545	53.2	638	133	251
.....1959.....	1,901	53.7	805	217	404
Hired labor ¹.....1949.....	2,670	49.6	2,418	450	906
.....1954.....	2,221	46.4	2,279	477	1,026
.....1959.....	1,785	48.1	2,622	707	1,469
Feed for livestock and poultry.....1949.....	3,876	72.0	3,024	562	780
.....1954.....	3,653	76.4	3,906	817	1,069
.....1959.....	2,843	76.7	4,755	1,282	1,673
Gasoline and other petroleum fuel and oil for the farm business.....1949.....	2,983	55.5	1,134	211	380
.....1954.....	3,268	68.3	1,366	286	418
.....1959.....	3,464	93.4	1,554	419	449

NA Not available. X Not applicable.

¹ Cash payments for farm labor, housework specifically excluded; excludes expenditures for contract construction work, machine hire, or labor included in cost of machine hire.

Source: Dept. of Commerce, Bureau of the Census; *U.S. Census of Agriculture: 1959*, Vol. II.

No. 914. FARM MACHINERY AND EQUIPMENT: 1940 TO 1964

[Excludes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1967*, series K 150-158]

ITEM	1940	1950	1955	1960	1961	1962	1963	1964 (prel.)
Value of farm implements and machinery ¹ mil. dol.	3,060	12,166	18,595	22,344	21,977	22,499	23,306	24,082
Number on farms, Jan. 1:								
Tractors ².....1,000.....	1,567	3,394	4,345	4,684	4,700	4,690	4,670	4,657
Motortrucks.....1,000.....	1,047	2,207	2,675	2,826	2,850	2,875	2,900	2,915
Automobiles.....1,000.....	4,144	4,100	4,140	3,829	(³)	(³)	(³)	(³)
Grain combines.....1,000.....	190	714	980	1,040	1,035	1,025	1,020	1,010
Corn pickers.....1,000.....	110	456	688	795	800	815	820	820
Pickup balers.....1,000.....	-	196	498	680	715	735	750	775
Field forage harvesters.....1,000.....	-	81	202	290	305	320	330	345
Farms with milking machines.....1,000.....	175	636	712	666	(³)	(³)	(³)	(³)
Farmers' expenditures:								
Motor vehicles ⁴.....mil. dol.	384	1,734	1,482	1,224	1,471	1,579	1,743	1,785
Machinery and equipment.....mil. dol.	241	1,418	1,278	1,483	1,457	1,475	1,692	1,890

- Entry represents zero.

¹ Inventory valuations at beginning of year. Includes family automobiles.

² Excludes garden tractors. ³ Estimates discontinued because of insufficient information.

⁴ Excludes family automobiles and trucks.

Source: Dept. of Agriculture, Economic Research Service; annual report, *The Balance Sheet of Agriculture*. Also in *Agricultural Statistics*.

No. 915. FARM LABOR—FARMS REPORTING, PERSONS WORKING ON FARMS, AND WAGES PAID, BY STATES: 1959

[Based on reports for a sample of farms. Relates to farm operators working 1 hour or more, hired workers doing farm work, and unpaid family members working 15 hours or more during week (September 28–October 2 or October 24–30). Excludes housework and contract construction work. For composition of regions, see fig. 1, p. XII]

STATE	Family and/or hired workers, persons working	FAMILY WORKERS, INCLUDING OPERATOR		HIRED WORKERS		CASH WAGES PAID FOR HIRED LABOR IN 1959	
		Farms reporting	Persons working	Farms reporting	Persons working	Farms reporting	Amount (\$1,000)
United States.....	6,332,478	3,125,131	4,748,325	547,611	1,584,153	1,784,826	2,621,651
The North.....	2,855,098	1,536,236	2,422,007	233,540	433,091	801,862	817,949
The South.....	2,751,609	1,209,609	1,892,157	239,706	859,452	789,257	916,407
The West.....	725,771	386,196	434,161	74,365	291,610	183,707	887,295
New England.....	113,768	49,685	72,483	14,742	41,285	28,723	91,853
Maine.....	29,457	14,760	20,440	3,318	9,017	8,484	21,735
New Hampshire.....	11,750	5,062	8,075	1,518	3,675	2,753	6,873
Vermont.....	22,269	11,022	16,539	3,535	5,730	6,763	10,812
Massachusetts.....	25,834	9,745	14,481	3,261	11,353	5,645	26,887
Rhode Island.....	3,828	1,281	1,800	509	1,768	801	3,142
Connecticut.....	20,830	7,215	11,088	2,601	9,742	4,277	22,703
Middle Atlantic.....	376,192	175,763	277,973	43,720	98,219	95,242	207,183
New York.....	157,863	72,896	111,184	20,544	46,679	41,931	93,455
New Jersey.....	35,334	18,091	20,539	5,447	14,795	9,629	42,604
Pennsylvania.....	182,995	89,776	146,260	17,729	36,745	43,682	71,126
East North Central.....	1,065,246	531,274	918,646	84,552	146,600	298,854	264,984
Ohio.....	215,325	123,301	185,995	15,656	29,330	59,594	57,914
Indiana.....	184,019	112,390	163,198	13,094	20,821	54,133	39,035
Illinois.....	234,559	139,458	197,959	23,904	36,600	77,092	71,712
Michigan.....	175,378	93,267	143,499	13,449	31,879	48,398	51,120
Wisconsin.....	255,965	122,868	227,995	18,542	27,970	59,637	45,203
West North Central.....	1,299,892	719,514	1,152,905	90,526	146,987	379,043	253,929
Minnesota.....	263,940	136,048	235,217	17,849	28,723	65,013	42,435
Iowa.....	293,449	164,618	260,126	23,901	33,323	92,975	59,060
Missouri.....	280,252	149,389	218,726	14,667	31,626	69,232	45,346
North Dakota.....	89,192	46,055	77,706	6,445	11,486	27,596	22,673
South Dakota.....	93,700	50,993	84,831	6,409	8,869	26,598	17,048
Nebraska.....	154,554	82,510	137,482	10,903	17,072	44,175	33,871
Kansas.....	154,805	89,901	138,817	10,352	15,988	53,454	33,496
South Atlantic.....	994,704	466,012	687,673	95,157	307,031	307,677	375,152
Delaware.....	9,222	4,372	6,589	1,076	2,638	2,017	6,028
Maryland.....	45,669	21,322	31,848	6,670	13,821	13,794	26,921
Virginia.....	161,648	82,194	120,087	15,678	41,561	45,554	50,575
West Virginia.....	59,120	37,516	51,532	3,620	7,588	13,604	10,361
North Carolina.....	307,811	150,960	232,015	25,971	75,795	112,344	74,676
South Carolina.....	136,349	58,168	87,682	13,189	48,667	41,403	36,425
Georgia.....	175,854	80,509	115,710	13,674	60,144	54,681	57,248
Florida.....	99,031	30,981	42,209	10,179	56,822	23,780	112,918
East South Central.....	881,741	435,492	641,036	66,032	240,705	247,744	164,158
Kentucky.....	211,041	121,726	170,853	18,820	41,088	74,506	34,672
Tennessee.....	241,229	126,636	184,084	17,994	57,145	72,576	36,868
Alabama.....	187,463	83,647	121,639	13,772	45,814	40,784	36,570
Mississippi.....	261,118	103,483	164,460	15,440	90,658	50,878	50,048
West South Central.....	875,164	398,195	563,448	78,517	311,716	233,836	377,097
Arkansas.....	192,064	76,341	111,369	12,284	80,695	39,775	75,808
Louisiana.....	126,819	56,420	81,201	9,206	45,618	27,122	40,039
Oklahoma.....	145,057	81,803	117,060	9,449	27,997	43,010	33,949
Texas.....	411,224	188,631	253,818	47,578	157,406	123,929	227,301
Mountain.....	292,837	126,665	197,705	30,526	95,132	83,595	217,083
Montana.....	49,580	24,288	38,056	5,668	11,524	16,148	28,250
Idaho.....	59,378	29,750	47,102	4,943	12,276	19,023	33,714
Wyoming.....	20,654	8,587	14,353	2,416	6,301	5,362	14,294
Colorado.....	62,707	28,586	45,584	7,487	17,123	19,650	41,294
New Mexico.....	35,433	11,989	17,743	3,807	17,600	7,853	25,015
Arizona.....	30,495	5,876	8,374	2,791	22,121	4,700	53,209
Utah.....	28,894	15,611	23,268	2,658	5,626	9,514	18,605
Nevada.....	5,690	2,089	3,225	756	2,471	1,360	7,172
Pacific.....	432,934	162,531	236,456	43,839	196,478	110,112	670,212
Washington.....	82,383	43,643	64,023	7,395	18,360	26,237	67,344
Oregon.....	68,219	35,322	51,887	5,819	16,332	19,500	49,522
California.....	255,828	78,028	110,613	29,556	145,215	62,284	498,743
Alaska.....	608	282	470	63	138	165	487
Hawaii.....	25,896	5,256	9,463	1,006	16,433	1,926	54,116

No. 916. FARM TAXES AND INSURANCE: 1940 TO 1963

[Excludes Alaska and Hawaii, except as noted. See also *Historical Statistics, Colonial Times to 1967*, series K 116-121]

ITEM	1940	1950	1955	1960	1961	1962	1963
Taxes levied on farm real estate ¹.....mil. dol.	401	742	931	1,249	1,327	1,398	1,408
Amount per acre ¹.....dol.	.39	.69	.88	1.22	1.20	1.36	1.43
Amount per \$100 of value ¹.....dol.	1.18	1.00	.96	.97	1.02	1.02	1.03
Taxes levied on farm personal property.....mil. dol.	50	177	203	254	270	286	295
State automotive taxes paid by farmers:							
Motor vehicle licenses and permits.....mil. dol.	68	120	157	² 173	² 175	² 177	² 179
Motor fuel taxes ³.....mil. dol.	79	145	186	176	179	179	178
FARMERS' MUTUAL FIRE INSURANCE ⁴							
Number of companies ⁴	1,898	1,777	1,651	1,592	1,564	1,530	1,500
Insurance in force at end of year.....mil. dol.	12,204	24,161	28,223	33,932	36,166	34,785	38,343
Cost per \$100 of insurance.....cents.	25.2	23.0	23.4	25.3	26.8	27.3	27.5
Losses.....cents.	17.1	14.6	15.9	16.9	17.9	18.3	19.2
Expenses.....cents.	8.1	8.4	7.5	8.4	8.9	9.0	8.3
Surplus and reserves, end of year ⁵.....mil. dol.	45	122	161	209	229	228	255

¹ Beginning 1960, includes Alaska and Hawaii. ² Preliminary.

³ Beginning 1950, includes taxes on gasoline used in farm tractors.

⁴ Includes companies with more than 50 percent of their insurance on farm property. About four-fifths of the insurance of such companies is estimated to be on farm property in recent years. There are no farmers' mutual fire insurance companies in Mass., R.I., Conn., N. Mex., Ariz., Utah, Nev., Alaska, and Hawaii.

⁵ Number of companies for which data were obtained; perhaps not entirely complete for any year.

⁶ Excess of assets over liabilities. Most of farmers' mutuals are assessment companies and as such are not required to set up unearned premium reserves.

Source: Dept. of Agriculture, Economic Research Service; *Agricultural Finance Review*.

No. 917. FARMER COOPERATIVES—NUMBER, MEMBERSHIPS, AND BUSINESS: 1940 TO 1963

[For years ending June 30, with limited exceptions. Beginning 1955, includes Alaska and Hawaii. Comprises independent local associations, federations, large-scale centralized associations, and sales agencies. Data are for marketing season during which farm products are moved into channels of trade. Marketing seasons overlap. See also *Historical Statistics, Colonial Times to 1967*, series K 181-189]

YEAR	COOPERATIVES LISTED			ESTIMATED MEMBER-SHIPS ² (1,000)			ESTIMATED BUSINESS ³ (\$1,000)		
	Total	Marketing ¹	Farm supply	Total	Marketing ¹	Farm supply	Total	Marketing ¹	Farm supply
1940.....	10,700	8,051	2,649	3,200	2,300	900	2,087,000	1,729,000	358,000
1945.....	10,150	7,400	2,750	4,505	2,895	1,610	5,645,000	4,835,000	810,000
1950.....	10,035	6,922	3,113	6,584	4,075	2,509	8,726,000	7,082,600	1,643,400
1955.....	9,903	6,557	3,346	7,604	4,281	3,323	9,641,882	7,620,265	2,021,617
1957.....	9,891	6,518	3,373	7,673	4,184	3,489	10,379,455	8,233,518	2,145,939
1958.....	9,735	6,352	3,383	7,486	3,943	3,543	10,752,902	8,565,412	2,187,490
1959.....	9,658	6,271	3,387	7,559	3,915	3,644	11,747,016	9,375,956	2,371,061
1960.....	9,345	6,048	3,297	7,273	3,673	3,600	12,036,248	9,628,091	2,408,157
1961.....	9,163	5,941	3,222	7,203	3,523	3,680	12,409,133	9,936,847	2,472,286
1962.....	9,039	5,833	3,206	7,099	3,464	3,635	13,023,804	10,462,468	2,561,336
1963 (prel.).....	8,907	5,696	3,211	7,219	3,623	3,596	13,841,846	11,137,446	2,704,400

¹ Includes service associations.

² Comprises members (those entitled to vote for directors) but excludes nonvoting patrons.

³ Comprises value of commodities sold or purchased for patrons and charges for rendering other essential services in marketing or purchasing. Beginning 1955, net figures; adjusted for duplication resulting from transactions between cooperatives. Earlier figures included some duplication.

Source: Dept. of Agriculture, Farmer Cooperative Service; annual report, *Statistics of Farmer Cooperatives*.

No. 918. FARMER COOPERATIVES—ESTIMATED BUSINESS, BY COMMODITY: 1963
 [Includes Alaska and Hawaii. Preliminary. See headnote, table 917]

COMMODITY	Number of co-ops. handling	Gross business (\$1,000)	Net business ¹ (\$1,000)	COMMODITY	Number of co-ops. handling	Gross business (\$1,000)	Net business ¹ (\$1,000)
Total	28,907	18,342,007	13,841,846	Farm supply	26,921	4,145,268	2,704,400
Marketing	26,295	13,893,463	10,834,165	Building materials.....	1,577	146,423	99,485
Dry beans and peas.....	69	40,200	29,578	Containers.....	1,132	58,258	31,050
Cotton and products.....	560	811,062	700,604	Farm machinery and equipment.....	1,781	105,580	75,923
Dairy products.....	1,490	4,524,833	3,498,652	Feed.....	4,373	1,371,256	993,847
Fruits and vegetables.....	640	1,472,308	1,054,609	Fertilizer.....	4,361	753,396	429,504
Grain, soybeans, soybean meal and oil.....	2,647	3,621,924	2,368,004	Meats and groceries.....	800	69,035	54,807
Livestock and products.....	507	1,717,063	1,609,171	Petroleum products.....	2,782	1,016,618	634,246
Nuts.....	98	133,330	122,850	Seed.....	3,915	162,089	112,635
Poultry products.....	479	504,074	420,120	Sprays and dusts (farm chemicals).....	3,089	96,445	64,714
Rice.....	60	243,695	207,348	Other supplies.....	4,652	366,163	208,189
Sugar products.....	66	425,695	425,695	Services (trucking, cotton ginning, storage, grinding, locker plants, misc.)	25,412	303,281	303,281
Tobacco.....	30	313,839	313,839				
Wool and mohair.....	253	23,406	23,182				
Miscellaneous.....	189	62,034	60,513				

¹ Represents value at the first level at which cooperatives transact business for farmers. Adjusted for duplication resulting from intercooperative business.

² Because many associations are engaged in more than one type of business, these totals are less than the number that would be obtained by adding the number of associations handling individual items or performing individual services. ³ Charges for services in which no duplication occurs.

Source: Dept. of Agriculture, Farmer Cooperative Service; annual report, *Statistics of Farmer Cooperatives*.

No. 919. FARMER COOPERATIVES—NUMBER, MEMBERSHIPS, AND BUSINESS, BY STATES: 1963

[Preliminary. See headnote, table 917]

STATE	Cooperatives listed	Estimated memberships ¹	Estimated business ² (\$1,000)	STATE	Cooperatives listed	Estimated memberships ¹	Estimated business ² (\$1,000)
United States	8,907	7,218,750	13,841,846	South Atlantic—Con.			
New England	104	68,660	303,586	West Virginia.....	67	62,455	37,129
Maine.....	16	17,110	50,774	North Carolina.....	45	382,790	272,445
New Hampshire.....	8	5,155	22,172	South Carolina.....	18	95,850	59,813
Vermont.....	21	15,020	91,210	Georgia.....	73	177,665	166,144
Massachusetts.....	34	19,140	72,544	Florida.....	111	46,500	278,524
Rhode Island.....	2	1,890	10,479	East South Central	425	559,565	611,495
Connecticut.....	23	10,345	56,407	Kentucky.....	92	178,130	140,504
Middle Atlantic	670	345,245	1,115,778	Tennessee.....	135	131,425	113,554
New York.....	414	149,415	645,927	Alabama.....	62	89,735	91,492
New Jersey.....	68	32,145	97,786	Mississippi.....	136	160,275	265,945
Pennsylvania.....	188	163,685	372,065	West South Central	870	395,780	1,177,502
East North Central	1,669	1,730,775	3,039,287	Arkansas.....	108	71,025	201,105
Ohio.....	259	311,055	648,540	Louisiana.....	68	14,230	81,294
Indiana.....	129	409,555	496,311	Oklahoma.....	172	143,110	239,875
Illinois.....	413	443,430	765,808	Texas.....	522	167,415	655,228
Michigan.....	196	155,020	397,887	Mountain	494	318,325	700,984
Wisconsin.....	672	411,115	730,741	Montana.....	172	77,005	121,247
West North Central	3,410	2,401,879	3,600,607	Idaho.....	85	59,770	142,272
Minnesota.....	1,127	615,760	921,447	Wyoming.....	25	13,075	17,936
Iowa.....	588	423,140	830,949	Colorado.....	103	53,120	171,064
Missouri.....	205	425,865	360,154	New Mexico.....	29	8,790	37,769
North Dakota.....	404	245,435	359,542	Arizona.....	17	76,305	107,422
South Dakota.....	299	189,810	220,117	Utah.....	60	30,005	98,134
Nebraska.....	370	283,730	386,166	Nevada.....	3	255	5,160
Kansas.....	329	218,080	513,232	Pacific	699	286,840	2,139,114
South Atlantic	566	1,111,690	1,153,493	Washington.....	175	111,955	376,732
Delaware.....	13	22,565	15,273	Oregon.....	108	61,440	223,944
Maryland.....	65	82,620	117,142	California.....	390	111,515	1,520,454
Virginia.....	174	241,345	219,023	Alaska.....	2	85	5,300
				Hawaii.....	24	1,845	12,684

¹ See footnote 2, table 917. ² See footnote 3, table 917.

³ Includes volume of a sugar cooperative with headquarters in California whose business originated in Hawaii.

Source: Dept. of Agriculture, Farmer Cooperative Service; annual report, *Statistics of Farmer Cooperatives*.